

08:00 - 09:30 REGISTRATION AND COFFEE BREAK

**SESSION CHAIRMAN: HASAN HEPERKAN, ISTANBUL AYDIN UNIVERSITY, TURKEY**

09:30 - 10:00 CONFERENCE CHAIRMAN, ASHRAE TURKISH CHAPTER PRESIDENT, DEPARTMENT HEAD, FACULTY DEAN, RECTOR

10:00 - 10:50 İBRAHİM DİNÇER, ONTARIO INSTITUTE OF TECHNOLOGY, CANADA

10:50 - 11:10 SALİM HIZIROĞLU, OKLAHOMA STATE UNIVERSITY, USA

11:10 - 11:30 ENRICO SCIUBBA, SAPIENZA UNIVERSITY OF ROME, ITALY

- 1) CHAGUETMI SAMİHA - PHOTOELECTROCHEMICAL PROPERTIES OF ZNS- AND CDS-TIO<sub>2</sub> NANOSTRUCTURED PHOTOCATALYSTS: AQUEOUS SULFIDATION AS A SMART ROUTE TO IMPROVE CATALYST STABILITY
- 2) CHAGUETMI FATİMA - ASSESSMENT OF THE ENVIRONMENTAL QUALITY OF NEIGHBOURHOODS IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT CASE OF THE PLAIN WEST IN ANNABA, ALGERIA
- 3) BENZENINE HAMIDOU - NUMERICAL ANALYSIS OF EFFECTS OF GEOMETRICAL AND OPERATIONAL PARAMETERS ON THE PERFORMANCE OF THE SOLAR CHIMNEY USED FOR PURPOSES OF NATURAL VENTILATION
- 4) BENZENINE HAMIDOU - CONTRIBUTION TO THE STUDY OF NATURAL CONVECTION IN A CONFINED CAVITY SUBJECTED TO DIFFERENT TEMPERATURE GRADIENTS
- 5) BENZENINE HAMIDOU - NUMERICAL PREDICTION OF HEAT TRANSFER AND PRESSURE DROP IN A CHANNEL WITH A SOLID BAFFLE. SMALL AND LARGE PERFORATIONS OF THE SAME SHAPE
- 6) MOHAMED WALID AZIZI - ANALYSING AND MODELING OF SURFACE ROUGHNESS AND TOOL VIBRATIONS DURING HARD TURNING FOR MULTI-OBJECTIVE OPTIMIZATION
- 7) BERHAL SABRI - NUMERICAL STUDY OF FLOW THROUGH A SUDDEN ENLARGEMENT IN A HORIZONTAL CHANNEL
- 8) BACHIR BOUDERBA - ANALYSIS OF THE BUCKLING PROBLEM OF FGM THICK PLATES MADE OF METAL / CERAMIC WITH THREE TYPES (AL / AL<sub>2</sub>O<sub>3</sub>, AL / ZR<sub>2</sub>O<sub>3</sub> AND AL / SiC)
- 9) BACHIR BOUDERBA - BENDING BEHAVIOR OF NEW CLASS COMPOSITE MATERIALS PLATES
- 10) BACHIR BOUDERBA - THERMAL STABILITY OF FUNCTIONALLY GRADED SANDWICH PLATES
- 11) MARSA ZOUBAIDA - EFFECT OF AL<sub>13</sub> POLYCYCATION GRAFTING ON THE POROUS STRUCTURE DEVELOPMENT OF POMEGRANATE WASTES ACTIVATED CARBON
- 12) RABAH KERFAH - EFFECT OF OPERATIONAL PARAMETER ON THE PERFORMANCE OF MODIFIED ACTIVE SOLAR STILL
- 13) RABAH KERFAH - EFFECT OF PREHEATING AND BUILT-IN CONDENSER ON THE PERFORMANCE OF A BASIN SOLAR STILL: A COMPARATIVE STUDY
- 14) NADJAH SOBTI - PHOTOELECTROCHEMICAL STUDY OF VARIOUS TiO<sub>2</sub> NANOSTRUCTURES
- 15) HADJI ALI - TRIBOLOGICAL PROPERTIES OF A MODIFIED HIGH-MANGANESE STEEL
- 16) HADJI ALI - FORMATION OF THE STRUCTURE AND MECHANICAL BEHAVIOR IMPROVEMENT OF AN AUSTEMPERED DUCTILE IRON
- 17) HADJI ALI - HEAT TREATMENT OF A NEW GRADE OF HADFIELD STEEL
- 18) DJEBBAR NOUREDDINE - BIOMECHANICAL ANALYSIS OF THE IMPACT EFFECT ON THE STRESS INTENSITY IN THE DENTAL PROSTHESIS ELEMENTS
- 19) KERFAH RABAH - EFFECT OF SOLIDITY ON THE AERODYNAMIC PERFORMANCE OF DARRIEUS H TYPE VERTICAL AXIS WIND TURBINE
- 20) HAFIDA BOUCHELAGHEM - UV AGING EFFECT ON THE BEHAVIOR AND MECHANICAL DAMAGE OF BIOCOMPOSITES INVESTIGATED UNDER FLEXURAL AND IMPACT TESTS
- 21) HAFIDA BOUCHELAGHEM - DESIGN AND MANUFACTURING OF A SMALL HORIZONTAL WIND TURBINE COMPOSITE BLADES AND INVESTIGATION OF THEIR PERFORMANCE
- 22) NADIR BENAMIRA - STATOR CURRENTS ANALYSIS IN ORDER TO DETECT VOLTAGE IMBALANCES IN INDUCTION MOTORS
- 23) NADIR BENAMIRA - DIAGNOSIS OF INDUCTION MOTOR UNDER ABNORMAL VOLTAGES CIRCUMSTANCES
- 24) NADIR BENAMIRA - EXPERIMENTAL INVESTIGATION OF THREE PHASE ASYNCHRONOUS MOTOR TO DETECT STATOR VOLTAGE IMBALANCES
- 25) FATMI MESSAOUD - DSC STUDY OF THE KINETICS OF DISCONTINUOUS PRECIPITATION OF AL - 10% AG ALLOY
- 26) FATMI MESSAOUD - STRUCTURAL, ELASTIC, ELECTRONIC AND OPTICAL PROPERTIES OF MLiH<sub>3</sub> (M = BA AND SR) UNDER PRESSURE. AB INITIO STUDY
- 27) BRAHIM BARKA - QUENCHING TEMPERATURE EFFECT ON THE THERMOMECHANICAL BEHAVIOR OF POLY (METHYLMETHACRYLATE)
- 28) BRAHIM BARKA - STATISTICAL ANALYSIS OF THE DEFECTS SURFACE DISTRIBUTION OF AN ERODED ORGANIC GLASS BY SANDBLASTING
- 29) GUERIDI BACHIR - THERMAL PROPERTIES OF THE PS/TIO<sub>2</sub> COMPOSITE
- 30) GUERIDI BACHIR - THERMOMECHANICAL AND THERMAL TREATMENT PROPERTIES ON THE (PS-TIO<sub>2</sub>) COMPOSITE
- 31) BENHADJI SERRADJ NASREDDINE - MEASUREMENT OF CUTTING TEMPERATURE DURING MACHINING
- 32) BENHADJI SERRADJ NASREDDINE - CONTRIBUTION TO THE STUDY OF COOLING FOUNDRY PARTS - EXPERIMENTAL STUDY
- 34) BENHADJI SERRADJ NASREDDINE - EVALUATING PREDICTIVE CAPABILITY OF MEASURING DEVICES
- 35) YEGHNEM REDHA - DYNAMIC BEHAVIOR OF ADVANCED COMPOSITE PLATES RESTING ON WINKLER-PASTERNAK FOUNDATIONS USING A HIGHER-ORDER SHEAR DEFORMATION THEORY
- 36) SERHAT ONAY - FORMING-BASED HYBRID MANUFACTURING METHODS
- 37) ABDULLAH CIHAN OZDEMIR - WETTABILITY OF SILICON SURFACES AND CHANGEABILITY OF CONTACT ANGLE

11:30 - 11:50  
Poster Presentations

11:50 - 13:30 LUNCH

- 1) BENGUEDIAB MOHAMED - EFFECT OF RESIDUAL STRESSES ON FATIGUE CRACK PROPAGATION
- 2) BENGUEDIAB MOHAMED - EXPERIMENTAL DETERMINATION OF ESSENTIAL WORK OF FRACTURE IN HDPE PIPES
- 3) BOUHAMRI NOUREDDINE - NUMERICAL SIMULATION OF A FLUID FLOW IN A MICRO-CHANNEL FOR THE PROPER FUNCTIONING OF ELECTRONIC COMPONENTS
- 4) FACI ABDELAZIZ - STUDY OF THE INFLUENCE OF DEFECTS CAUSED BY SANDING ON THE PROPERTIES OF A SODA-LIME GLASS
- 5) FACI ABDELAZIZ - EXPERIMENTAL STUDY AND PROBABILISTIC ANALYSIS OF THE BEHAVIOR OF THE MECHANICAL STRENGTH OF SANDED SODA-LIME GLASS
- 6) FACI ABDELAZIZ - INFLUENCE OF CHEMICAL TREATMENT BY ION EXCHANGE ON THE MICROSTRUCTURE AND THE MECHANICAL PROPERTIES OF A SODA-LIME GLASS
- 7) MOHAMMED DEBBAL - DESIGN OF A CAPILLARY ELECTROPHORESIS SENSOR BASED ON MICROSTRUCTURED FIBER
- 8) LEILA BOUMERIBAA - IMPACT OF WEAR OF UNCOATED AND TRIPLE COATED CARBIDE INSERTS ON THE SURFACE FINISH OF STEEL 100CR6 IN FRONT MILLING
- 9) SAMİHA LAÏDOUDI - OPTICAL, STRUCTURAL AND MORPHOLOGICAL CHARACTERIZATION OF ELECTRODEPOSITED CUPROUS OXIDE THIN FILMS: EFFECT OF DEPOSITION TIME
- 10) LEILA LAMIRI - OPTICAL AND PHOTO-ELECTROCHEMICAL CHARACTERIZATION OF MANGANESE OXIDE/POLYPYRROLE NANOCOMPOSITE
- 11) YAGHOUB TADIBENI - CONFIGURATION OF MEMS HIGH VOLTAGE FOR NON-LINEAR FUNCTIONALLY GRADED PIEZOELECTRIC ENERGY HARVESTER
- 12) CHARGUI FOUZIA - MULTILITIZATION OF ALGERIAN KAOLIN BY ADDING OF ALUMINUM SLAG
- 13) BENSAD NASREDDINE - THE INFLUENCE OF MICRO-SCRATCHING PARAMETERS OF SILICO-SODA-LIME GLASS BY NUMERICAL SIMULATION ON THE CRACKING SYSTEM
- 14) BENSAD NASREDDINE - BEHAVIOR OF THE MECHANICAL STRENGTH OF SILICO SODA-LIME GLASS UNDER CHEMICAL TREATMENT IN MICROSCRATCHING
- 15) BELHAMIANI MOHAMED - FAILURE ANALYSIS OF AN AMORPHOUS POLYMER BY USING A RVE APPROACH
- 16) TIDJANI AHMED ZITOUNI - COMPARATIVE STUDY ON HDPE PIPES
- 17) BOUASLA ABDELAZIZ - MECHANICAL BEHAVIOR OF BALL MILLED AND EXTRUDED MATERIALS
- 18) TOUALBIA ASMA - A NEW ROBUST CONTROL OF THERMOELECTRIC SYSTEM
- 19) TOUALBIA ASMA - COMPARAISON OF MPPT STRATEGIES FOR PHOTOVOLTAIC SYSTEM
- 20) FATMA ZOHRA KESSAISIA - A NEW CONCEPT OF MODELING A PHOTOVOLTAIC MODULE BEHAVIOR
- 21) AÏCHA AÏSSA BOKHTACHE - OPTIMIZATION OF A POWER SUPPLY USED FOR A DISCHARGE LAMP-ELECTRONIC BALLAST SYSTEM FOR STERILIZATION USING CONVENTIONAL CONVERTER AND A MATRIX CONVERTER
- 22) AÏCHA AÏSSA BOKHTACHE - DYNAMIC BEHAVIOR OF A DISCHARGE LAMP-ELECTRONIC BALLAST SYSTEM FOR STERILIZATION
- 23) ABDELMAJID BOUDJEMAL - OPTIMIZATION AND PARAMETERS SENSITIVITY ANALYSIS FOR NOZZLE SYSTEM OF LIQUID ROCKET USING GRAVITATIONAL SEARCH ALGORITHM
- 24) RACHIDA HOCINE - THERMAL ANALYSIS OF MICRO-HEATER USING MULTIPHYSICS FEM AND TLM SIMULATIONS FOR MEMS BASED GAS SENSOR
- 25) ROKBI MANSOUR - EFFECT OF FIBERS ORIENTATION ON THE FRACTURE OF POLYMER CONCRETE BASED ON QUARTZ, POLYESTER AND JUTE FABRICS
- 26) ROKBI MANSOUR - CONTRIBUTION TO THE VALORIZATION OF DUNE SAND IN THE MANUFACTURE OF A POLYMER CONCRETE BASED ON RECYCLED RESIN
- 27) ELHADI ABDELMALEK - ANALYTICAL CALCULATION OF TEMPERATURES AT THE INTERFACE DURING THE DRY FRICTION OF THE COUPLE OF STEEL
- 28) TRODI AMIRA - NATURAL CONVECTIVE HEAT TRANSFER ENHANCEMENT OF WATER BASED AL<sub>2</sub>O<sub>3</sub>-Cu HYBRID NANOFUID WITHIN DIFFERENTIALLY HEATED SQUARE CAVITIES
- 29) NASSIMA RAMDANE - KINETICS AND EQUILIBRIUM OF METALS IONS ADSORPTION ONTO CHEMICALLY MODIFIED APPLE PEEL CELLULOSE BIOSORBENTS
- 30) BENLALLI YACINE - DETECTION OF THE DEFECT BY SIMULTANEOUS APPLICATION OF THE THERMOGRAPHY IR AND VIBRATORY ANALYSIS
- 31) BENLALLI YACINE - STUDY AND EXPERIMENTATION FOR THE SYSTEM OF PURSUIT OF THE PRODUCTION OF ALUMINUM
- 32) BENSAD ISMAIL - STUDY OF BENDING AND BUCKLING RESPONSE OF FUNCTIONALLY GRADED NANO-BEAMS CONSIDERING MICROSTRUCTURAL DEFECTS
- 33) BENSAD ISMAIL - INTERFACIAL STRESSES ANALYSIS IN STEEL BEAMS STRENGTHENED WITH THIN COMPOSITE PLATES ACCOUNTING FOR EFFECT OF THERMO-MECHANICAL LOADING

13:30 - 13:50 Poster  
Presentations

- 34) BENAACHOUR MUSTAPHA - PATCH REPAIR EFFECT ON FATIGUE CRACK GROWTH OF ALUMINIUM ALLOY UNDER VARIABLES AMPLITUDES LOADING
- 35) BENAACHOUR MUSTAPHA - EFFECT OF PATCH MATERIALS AND ADHESIVES ON EVOLUTION OF STRESS INTENSITY FACTOR OF CRACKED PLATE
- 36) KADIR LAMIA - A CONTINUOUS ANAEROBIC CO-DIGESTION OF POULTRY WASTE AND FOOD WASTE AT THERMOPHILIC RANGE
- 37) HAKIM AGUEDAL - DEGRADATION IMPACT OF THE FILTER TOILE ON THE DEWAXING PROCESS
- 38) SABRINA SAMI-MECHERI - DETERMINATION OF ENERGY NEEDS AND INTEGRATION OF A SOLAR HEATING SYSTEM: CASE STUDY OF AN OFFICE SPACE LOCATED AT THE CDER
- 39) SID AHMED REFFAS - ANALYZE BY THE FINITE ELEMENT METHOD THE EFFECT OF THE GEOMETRY OF THE EDGE OF THE ADHESIVE SEAL AND THE ADHERENT ON THE REDUCTION OF PEEL STRESSES
- 40) DEHDOUN HEIDER - ERBIUM DOPING TiO<sub>2</sub> THIN FILMS FOR NANOPHOTONIC APPLICATIONS
- 41) RAHMOUN AMEL - HIV-1 MODEL BIFURCATION ANALYSIS
- 42) SMAÏL DALILA - EFFECT OF THERMOPLASTIC STARCH (TPS), COMPATIBILIZING AGENT (MA-G-PP) AND ORGANOCLOY ON THE PROPERTIES OF POLYPROPYLENE/THERMOPLASTIC STARCH (PP/TPS) BLENDS
- 43) SOUROUR CHAABANE ELAOUÏ - COUPLING ULTRASOUND IRRADIATION WITH ELECTROCHEMICAL DEGRADATION OF ALLURA RED (AC) USING PB02 ANODE
- 44) BELGHERBI OUAÏFA - MORPHOLOGICAL AND OPTICAL PROPERTIES OF ELECTROPOLYMERIZED POLYANILINE THIN FILMS
- 45) BELACEL MOUNIA - NUMERICAL STUDY OF THE EFFECT OF AMBIENT PRESSURE AND OF HYDROGEN ENRICHMENT ON NO EMISSIONS RESULTING FROM TURBULENT NON-PREMIXED COMBUSTION OF METHANE
- 46) DJELLOUL CHAFIA - 2D NUMERICAL ANALYSIS OF TWIN TUNNELS INTERACTION WITH DIFFERENT EXCAVATION PHASES SHIFT
- 47) DJOUÏDER RADIA - STUDY OF VARIOUS PARAMETERS INFLUENCING THE DECOLORIZATION OF DYE IN PHOTOCATALYTIC BATCH REACTOR
- 48) BRAHIM LADGHEM CHIKOUÏCHE - IMPACT OF MAGNETIC SLOT WEDGES ON PMSM PERFORMANCES USING ANALYTICAL MODEL
- 49) SARRA MUSTAPHA - POWER QUALITY IMPROVEMENT IN A ENHANCEMENT DISTORTED POWER GRID USING A DIRECT-CURRENT CONTROLLED PHOTOVOLTAIC GENERATOR
- 50) ROUBAH KARIMA - PHOTOCATALYTIC DEGRADATION OF CRYSTAL VIOLET BY NICKEL-COBALT CATALYST UNDER SOLAR LIGHT IRRADIATION
- 51) METKA BENCINA - SURFACE MODIFICATION TECHNIQUES FOR METALLIC BIOMATERIALS
- 52) DELIMI AMEL - EFFICIENCY OF A THERMALLY MODIFIED POLYSILOXANE FILM AS PROTECTIVE LAYER PREPARED BY REMOTE COLD PLASMA ASSISTED CHEMICAL VAPOUR DEPOSITION PROCESS
- 53) DELIMI AMEL - STUDY OF INHIBITORY EFFICACY AND ACTION MECHANISM OF METAFORMINE DRUG AS CORROSION OF 304L STAINLESS STEEL IN H<sub>2</sub>SO<sub>4</sub>
- 54) DELIMI AMEL - EVALUATION OF THE PROTECTION OF ORGANOSILICON FILMS PREPARED BY REMOTE COLD PLASMA ASSISTED CHEMICAL VAPOUR DEPOSITION PROCESS WITH ARGON PRETREATMENT
- 55) BENKHERBACHE HOURIA - INFLUENCE OF CHEMICAL CORROSION ON THE MECHANICAL PROPERTIES OF E24 STEEL
- 56) ADNANE LABED - EXPERIMENTAL STUDY OF THE THERMAL PERFORMANCES OF VARIOUS DESIGNS OF SOLAR AIR HEATERS: A COMPARATIVE STUDY
- 57) MAÏDIYAR SAFFARI AGHABASHI - INTERNAL FLOW CONVECTION COEFFICIENT IN VARIOUS CROSS SECTION TUBES
- 58) BELHAÏNE ALI - REMOVAL OF ORANGE II DYE FROM AQUEOUS SOLUTION BY A BIO-WASTE
- 59) ILHEM HADJIOUB - DOPING EFFECTS ON THE CHARACTERISTICS OF 4H-SiC MESFETS

**SESSION CHAIRMAN: ORHAN ÇAKIR, YILDIZ TECHNICAL UNIVERSITY, TURKEY**

13:50 - 14:10 SURKAY D. AKBAROV, YILDIZ TECHNICAL UNIVERSITY, TURKEY

14:10 - 14:30 SALIM NEWAZ KAZI, UNIVERSITY OF MALAYA, MALAYSIA

14:30 - 14:50 HAKAN F. ÖZTOP, FIRAT UNIVERSITY, TURKEY

14:50 - 15:10 MAJID R. AYATOLLAHI, IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, IRAN

15:10 - 15:30 OMID MAHIAN, XI'AN JIATONG UNIVERSITY, CHINA

15:30 - 15:50 ALIBAKHSH KASAEIAN, UNIVERSITY OF TEHRAN, IRAN

16:10 - 16:30 MOHAMMAD AMERI, SHAHID BEHESHTI UNIVERSITY, IRAN

- 1) RABAH KSOURI - CHARACTERIZATION OF CURING EPOXY RESIN RTM6 WITH DSC AND FTIR
- 2) DJAF AHMED - THERMODYNAMIC PROPERTIES OF THE CO<sub>2</sub> AND H<sub>2</sub> MOLECULES WITH GENERAL EXPONENTIAL TYPE POTENTIAL
- 3) SOUAD KASRANI - EFFECT OF AL<sub>2</sub>O<sub>3</sub> ADDITIONS ON DENSIFICATION AND MECHANICAL PROPERTIES OF NEW MULTIFUNCTION RESISTANT PORCELAINS USING ECONOMIC RAW MATERIALS
- 4) AIT MAHAMED HALIMA - NEW MATERIAL THERMALLY TREATED FOR PURIFIED POLLUTED WATER
- 5) BENKHERBACHE SOUAD - NUMERICAL INVESTIGATION OF CONVECTIVE HEAT TRANSFER OF A NANOFUID IN HEAT EXCHANGER
- 6) SIHEM CHEHLATT - IN VITRO BIOACTIVITY STUDY OF BIOACTIVE WOLLASTONITE CONTAINING 3 WT% B<sub>2</sub>O<sub>3</sub> PREPARED FROM LOCAL RAW MATERIALS
- 7) KITOUNI SAÏDA - THERMAL TRIAXIAL PORCELAIN BEHAVIOUR
- 8) TABET ISMAIL - ANALYTICAL HEAT TRANSFER MODELING IN HYBRID P/V/T AIR COLLECTOR BY DIFFERENTIAL TRANSFORMATION METHOD (DTM)
- 9) SALAH AMROUNE - MANUFACTURING OF PROTO TYPE GAS TURBINE BLADE (FRAME 9001 GE) USING REVERSE ENGINEERING AND 3D PRINTING
- 10) SALAH AMROUNE - STUDY OF THE INFLUENCE OF THERMAL TREATMENTS ON THE SUPER ALLOY INCONEL 738
- 11) SOON-CHEOL CHUNG - DEVELOPMENT OF COMPLEX TACTILE SYSTEM FOR EEG STUDY
- 12) LAOUEJDI SAMIR - NUMERICAL INVESTIGATION OF HEAT TRANSFER ENHANCEMENT IN A PARABOLIC TROUGH SOLAR COLLECTOR USING FINS
- 13) LAOUEJDI SAMIR - HEAT TRANSFER ENHANCEMENT IN MICRO-CHANNELS WITH CROSS-FLOW AL<sub>2</sub>O<sub>3</sub>-WATER NANOFUIDS SYNTHETIC JETS
- 14) MAACHE BATTIRA MOUNA - EFFECTS OF MAGNETIC FIELD DIRECTION AND NANOPARTICLES CONCENTRATION ON FREE CONVECTION IN A VERTICAL CYLINDER
- 15) MILI FAYCAL - STRENGTH EVALUATION OF THE DOUBLE-BONDED COMPOSITE PATCH FOR WIND TURBINE BLADE REPAIR
- 16) BOUREGAA MOUWEFTEQ - OPTICAL LOCAL AREA NETWORK PERFORMANCE ANALYSIS USING OPTISYSTEM SOFTWARE
- 17) BOUREGAA MOUWEFTEQ - OPTICAL CODE DIVISION MULTIPLE ACCESS (OCDMA) TECHNIQUE SOLUTION FOR FTTH PASSIVE OPTICAL NETWORK (FTTH-PON)
- 18) MOHAMED AMINE GHEBOULI - STRUCTURAL, ELASTIC AND OPTOELECTRONIC PROPERTIES OF SR-BASED PEROVSKITE-TYPE OXIDES SRXO<sub>3</sub> (M = TH, ZR) VIA FIRST-PRINCIPLES CALCULATIONS
- 19) FATİMA ZOHRA KETTAF - MECHANICAL AND THERMAL BUCKLING ANALYSIS OF LAMINATED COMPOSITE PLATES
- 20) MERAKEB NOUREDDINE - TRIBOLOGICAL PROPERTIES OF AISI 304 STAINLESS STEEL COATINGS THERMALLY OXIDIZED BY THE REACTIVE THERMAL EVAPORATION METHOD
- 21) BOURAS HICHEM - FAULT DETECTION AND DIAGNOSIS BASED ON RESIDUAL GENERATION
- 22) BOURAS HICHEM - FAULT DETECTION OF A GAS TURBINE USING LINEAR PRINCIPAL COMPONENTS ANALYSIS
- 23) BOUMAAZA MESSAOUDA - APPLICATION OF RESPONSE SURFACE METHODOLOGY IN THE OPTIMIZATION OF SISAL FIBRE REINFORCED PLASTER
- 24) SMILI KARIMA - EFFECT OF TEMPERATURE ON ELECTRICAL DISCHARGE INITIATION VOLTAGE OF CAPACITORS
- 25) SMILI KARIMA - THE EXPERIMENTAL DESIGN APPLICATION ON PARTIAL DISCHARGE DIAGNOSTIC SYSTEM
- 26) BENGUEDIAB SOUMIA - STATIC STUDY OF FGM SANDWICH PLATES USING A NEW HYPERBOLIC THEORY
- 27) BENGUEDIAB SOUMIA - SHEAR CORRECTION FACTORS IN ORTHOTROPIC BEAMS
- 28) SAKER ABDELHAMID - MICROSTRUCTURE, ELECTRICAL PROPERTIES AND ANNEALING EFFECT OF THE DC-SPUTTERED AL<sub>1</sub>-XMOX ALLOYS
- 29) MORTEZA BAYAREH - STUDY OF MIXING EFFICIENCY IN NOVEL PASSIVE MICROMIXERS
- 30) MORTEZA BAYAREH - NUMERICAL STUDY OF DROP EVAPORATION IN CONTACT WITH SOLID SURFACE USING THE LATTICE BOLTZMANN METHOD
- 31) MORTEZA BAYAREH - THE EFFECT OF ATRIMUM DIMENSIONS ON ENERGY CONSUMPTION OF A RESIDENTIAL BUILDING IN A HOT-DRY AREA: ISFAHAN
- 32) MORTEZA BAYAREH - NUMERICAL SIMULATION OF CONVECTION HEAT TRANSFER FOR DRYING FRUIT AND VEGTABLES USING FLAT PLATE SOLAR COLLECTOR
- 33) GHELDANE FARID - STUDY OF THE CRACK PROPAGATION IN MULTIPHASES CERAMIC COMPOSITES OBTAINED BY REACTION SINTERING
- 34) SAMIA DRABLIA - FP-LAPW CALCULATION OF OBA1-XSRX ALLOYS PROPERTIES IN CUBIC STRUCTURE
- 35) SAMIA DRABLIA - STRUCTURAL, ELECTRONIC AND THERMODYNAMIC PROPERTIES OF BARIUM CHALCOGENIDES FROM FIRST-PRINCIPLES CALCULATIONS

16:30 - 16:50  
Coffee Break - Poster  
Presentations

- 36) FEKİH SIDI MOHAMED, NOUREDDINE DJEBBAR - BEVELING AND ADHESIVE THICKNESS OPTIMIZATION OF SINGLE AND DOUBLE SCARF BOUNDED JOINT
- 37) MAJID R. AYATOLLAHI - NOTCH STRENGTH EVALUATION OF POLYMERIC BONE CEMENT WITH NONLINEAR BEHAVIOR
- 38) CHAFFIA DJEBBARI - INDUCED TRANSFORMATION BY MECHANICAL ALLOYING IN THE Co-BASED ALLOYS
- 39) CHAFFIA DJEBBARI - IN-SITU INVESTIGATION OF PHASE FORMATION IN NANOCRYSTALLINE (FeCo)<sub>80</sub>AL<sub>20</sub> ALLOY BY HIGH TEMPERATURE X-RAY DIFFRACTION
- 40) LYNDIA BAHLOUL - STUDY OF THE EFFECT OF THE OPERATING PARAMETERS ON THE FIELD OF HYDROXYAPATITE SYNTHESIS BY EXPERIMENTAL DESIGN
- 41) ZELLAGUJ RAHIMA - SYNTHESIS OF CdXZn<sub>1-X</sub> NANOPARTICLE BY CHEMICAL BATH DEPOSITION
- 42) CHAMI SABAH NADIA - STRUCTURAL, ELECTRONIC AND THERMODYNAMIC PROPERTIES OF QUATERNARY FULL-HEUSLER ALLOY FEMNCRS<sub>3</sub> IN THREE TYPES STRUCTURE
- 43) KERAGHEL FATIHA - IDENTIFICATION OF THE TYPE OF WEAR OF A SINTERED BRONZE
- 44) KERAGHEL FATIHA - STUDY OF A BRONZE OBTAINED BY CU-SN METAL POWDER
- 45) KERAGHEL FATIHA - TRIBOLOGICAL BEHAVIOR OF A BRONZE CU<sub>10</sub>SN OBTAINED BY HOT SINTERING
- 46) NADJAT BENKHERBACHE - ANALYSIS OF CLIMATE CHANGES AND CEREAL PRODUCTIONS IN SEMI-ARID REGION
- 47) NACER BOUCHEROU - EDDY CURRENT EVALUATION APPLIED TO TITANIUM STRUCTURE

16:30 - 16:50  
Coffee Break - Poster  
Presentations

**YILDIZ TECHNICAL UNIVERSITY BEŞİKTAŞ CAMPUS - 18 DECEMBER 2019**  
**HALL A - FIRST FLOOR**

08:00 - 08:20	REGISTRATION AND COFFEE BREAK
	<b>SESSION CHAIRMAN: HATICE MERCAN, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
08:20 - 08:30	CHAOUI KAMEL, SLIMANE NIOU - TEMPERATURE FIELDS ASSESSMENT DURING BUTT FUSION WELDING OF PLASTIC PIPE
08:30 - 08:40	CHAOUI KAMEL, NACIRA HAMLAOUI - MECHANICAL BEHAVIOR OF POLYETHYLENE FILAMENTS UNDER LONG-TERM CHEMICAL AGEING
08:40 - 08:50	DRIS DJAMAL - GENETIC ALGORITHM FOR INTRUSION DETECTION SYSTEM IN E-HEALTH
08:50 - 09:00	SAHNOUN MOHAMMED - NATURAL CONVECTION HEAT TRANSFER OF HYBRID AL2O3-CU/WATER NANOFIUID FILLED IN TRIANGULAR ENCLOSURES UNDER THE EFFECT OF EXTERNAL UNIFORM MAGNETIC FIELD: NUMERICAL INVESTIGATION
09:00 - 09:10	HALFOUNE NADIA - IMMUNE GENETIC ALGORITHM FOR IoT AND MOBILE CLOUD TECHNOLOGIES SERVICE SCHEDULING BASED ON ENERGY-AWARENESS
09:10 - 09:20	BERKA MOHAMMED - ELECTROMAGNETIC CHARACTERISTIC ANALYSIS OF THE TRIANGULAR METAMATERIAL RESONATOR (TSRR) USING YIG SUBSTRATE
09:20 - 09:30	BERKA MOHAMMED - STUDY OF THE TECHNOLOGICAL QUALITIES OF METASURFACE USING (SRRs) METAMATERIALS FOR SPIRAL SHAPE
09:30 - 09:40	BERKA MOHAMMED - IMPROVEMENT OF THE ABSORPTION QUALITIES OF PHOTOVOLTAIC CELLS BASED ON THE METASURFACE FOR MAGNETIC ACTIVITY
09:40 - 09:50	RABHI MOHAMED - NUMERICAL STUDY OF THE INFLUENCE OF THE CONCENTRATION AND TEMPERATURE ON THE RHEOLOGICAL BEHAVIOR OF CMC
09:50 - 10:00	SMILI KARIMA - DPS MODELING OF PET BY GENETIC ALGORITHMS
10:00 - 10:10	HANI ABDALLAH AL RAWASHDEH RAWASHDEH - SOLVING FLOW SHOP SCHEDULING PROBLEM BY USING AN IMPROVED GENETIC ALGORITHM
10:10 - 10:20	SANAE ZRIOUEL - CRITICAL PHENOMENA OF DEFECTIVE HONEYCOMB SHEETS
10:20 - 10:30	INÈS GABSI - THERMAL PERFORMANCES OF NANOFIUID-FILLED LOOP HEAT PIPE FOR ELECTRONICS COOLING APPLICATIONS
10:30 - 10:40	FEDDAG AHMED - CONVERSION OF METHANOL TO LIGHT OLEFINS (MTO)
10:40 - 11:00	SEMINAR - NAEL BARAKAT - EMBLYING ABET ACCEREDITATION REQUIREMENTS TO BUILD ENGINEERING LEADERSHIP COMPONENTS IN THE CURRICULUM
	<b>SESSION CHAIRMAN: BEDRI ONUR KÜÇÜKYILDIRIM, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
11:00 - 11:10	ALI REHMAN - PERFORMANCE IMPROVEMENT IN SYNTHETIC NATURAL GAS LIQUEFACTION PROCESS THROUGH INCLUSION OF SELF-COOLING RECUPERATOR
11:10 - 11:20	ALI REHMAN - LNG SUPPLY CHAIN ENERGY SAVING OPPORTUNITIES: CHALLENGES AND WAY FORWARD
11:20 - 11:30	SEKKAL NORELHOUDA - MULTI OBJECTIVE SIMULATED ANNEALING ALGORITHM TO SOLVE A MANUFACTURING SCHEDULING PROBLEM
11:30 - 11:40	FARIS AISSAOUI - THEORETICAL STUDY ON THERMAL PERFORMANCE OF A SOLAR AIR COLLECTOR WITH FINS AND BAFFLES ATTACHED OVER THE ABSORBER PLATE
11:40 - 11:50	SARI EL-KAHINA - STRESS CHARACTERIZATION OF AIRCRAFT CRACKED SKIN USING EDDY CURRENT CONTROL
11:50 - 12:00	DJOUAMA MOHAMED LAMINE - EXPERIMENTAL AND NUMERICAL STUDY OF THE EFFECT OF BOUNDARY CONDITIONS AND THE THICKNESS ON THE BEHAVIOR OF CYLINDRICAL SHELL MODEL
12:00 - 13:20	LUNCH
13:20 - 13:40	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: ORHAN ÇAKIR, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
13:40 - 13:50	LATİFA OULD LARBI - FREE VIBRATION ANALYSIS OF FUNCTIONALLY GRADED PLATES UNDER VARIOUS BOUNDARY CONDITIONS USING A REFINED PLATE THEORY
13:50 - 14:00	GHOUELBOURK SIHEM - APPLICATION OF MULTILEVEL INVERTERS FOR HYBRID PV-WIND TURBINE SYSTEM
14:00 - 14:10	GHOUELBOURK SIHEM - OPTIMAL LOAD FLOW STUDY FOR IMPROVING THE STABILITY OF POWER GRID
14:10 - 14:20	MOHSEN ASGHARI - A DETAILED EXPLANATION ON THE COUPLE STRESS CONSTITUTIVE EQUATION
14:20 - 14:30	MOHSEN ASGHARI - A CONCEPTUAL EXPLANATION ON THE COUPLE STRESS ENERGY DENSITY
14:30 - 14:40	RELATIONSHIP
14:40 - 14:50	RIANE HOUARIA - ZINTL COMPOUNDS: THEORETICAL INVESTIGATION OF ELECTRONIC AND THERMOELECTRIC PROPERTIES
14:50 - 15:00	RIANE HOUARIA - THEORETICAL INVESTIGATION OF ELECTRONIC AND THERMOELECTRIC PROPERTIES OF SPINEL SELENIDE SC2CDSE4
15:00 - 15:10	RIANE HOUARIA - FIRST PRINCIPLES INVESTIGATION OF THE STRUCTURAL, ELECTRONIC AND THERMODYNAMIC PROPERTIES OF AND SKUTTERUDITES MATERIALS
15:10 - 15:30	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: ŞEVKET ÖZGÜR ATAYILMAZ, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
15:30 - 15:40	FAHD ABDELMOUÏZ ZİARİ - NUMERICAL SOLUTION FOR A CONVECTIVE-RADIATIVE RECTANGULAR FIN WITH VARIABLE THERMAL PROPERTIES AND VARIABLE INTERNAL HEAT GENERATION
15:40 - 15:50	WAHEED GUL - INVESTIGATION OF THE SURFACE MORPHOLOGY AND STRUCTURAL CHARACTERIZATION OF MDF & HDF
15:50 - 16:00	TOUGGUI YOUSSEF - ASSESSMENT OF SURFACE ROUGHNESS, TANGENTIAL CUTTING FORCE AND MATERIAL REMOVAL RATE IN DRY TURNING PROCESS OF AISI 304L AUTHENTIC STAINLESS STEEL THROUGH THE TAGUCHI METHOD AND GREY RELATIONAL ANALYSIS
16:00 - 16:10	MOHAMED SI AMEUR - NUMERICAL STUDY OF AIR-AIR MIXING IN TURBULENT COMPRESSIBLE COAXIAL JETS: EFFECT OF HOT JET
16:10 - 16:20	BOUALEM EL KECHBOUR - RISK OF URBANIZED SLOPED LANDS UNDER SEISMIC CONDITION: STABILITY OF SLOPE AND ELEVATION OF BUILDINGS
16:20 - 16:30	BOUDEBBOUZ OMAR - FAST VARYING LOAD PERFORMANCE ANALYSIS IN CONCRETE MOBILE PLANT
	<b>SESSION CHAIRMAN: EMRE ORAK, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
16:30 - 16:40	GHOUAOULA ABDELHAMID - THE EFFECT OF CRACK DEPTH ON THE MECHANICAL BEHAVIOR OF A MULTILAYER COMPOSITE MATERIAL
16:40 - 16:50	MOULOUD AYAD - DETECTION OF DEFECT IN GEAR SYSTEM BY WAVELET PACKETS TRANSFORM
16:50 - 17:00	TAHRAOUI TAREK - CONTRIBUTION TO THE COMPREHENSION OF PURE AND LANTHANUM DOPED NANOCRYSTALLINE COFE2O4 STRUCTURAL, MECHANICAL AND MAGNETIC PROPERTIES
17:00 - 17:10	MAHMOOD HESHMATI - VIBRATION AND INSTABILITY ANALYSIS OF TWO DIRECTIONAL FUNCTIONALLY GRADED PIPES CONVEYING FLUID
17:10 - 17:20	SHPETİM LAJQI - MULTI-CRITERIA ANALYSIS OF THE OVERALL PERFORMANCE AND IMPLEMENTATION OF A MINI HYDRO TURGO TURBINE
17:20 - 17:30	LUAY BADR HAMAD - INVESTIGATION OF BALLISTIC IMPACT RESISTANCE OF GRAPHITE EPOXY COMPOSITES
17:30 - 17:40	MAHDJOUR TAHAR - OPTIMIZATION WITH GRAVITATIONAL SEARCH ALGORITHM AND STUDY OF SOLAR CELL BASED ON MEMS TECHNOLOGY FOR ENERGY HARVESTING
17:40 - 17:50	LAMINE BELOUNAR - FREE VIBRATION OF PLATES WITH SQUARE OPENINGS USING TRIANGULAR MINDLIN ELEMENT
17:50 - 18:00	KHELIFA NOUREDDINE - IMPROVEMENT OF THE MECHANICAL PROPERTIES OF A COMPOSITE MATERIAL FOR THE MANUFACTURE OF ORTHOPAEDIC PROSTHESES
18:00 - 18:10	SELMAN DJEFFAL - THE IMPROVEMENT OF THE ORTHOGLIDE'S PROPOSED DESIGN THROUGH THE DYNAMIC'S IMPLEMENTATION
18:10 - 18:20	ALİ REHMAN - ENERGY SAVING OPPORTUNITIES IN LNG SUPPLY CHAIN: CHALLENGES AND PROSPECTS
18:20 - 18:30	WAHİBA METIRI - FIRST PRINCIPLE STUDY OF X3ZR (X = PT, PD, RH AND IR) STRUCTURAL, ELECTRONIC AND ELASTIC BEHAVIOR
18:30 - 18:40	GÖKHAN CANBOLAT - ANALYTICAL AND NUMERICAL SOLUTIONS OF THE 1D ADVECTION-DIFFUSION EQUATION
18:40 - 18:50	KAAN NAMAL - BIOMECHANICAL ANALYSIS OF CERVICAL SPINE
18:50 - 19:00	MUSTAFA SERDAR - FRICTION PERFORMANCE OF BRAKE PADS REINFORCED COLEMANITE AND COLOMANIT FIBER
19:00 - 19:10	NIHAL BAYRAMOĞLU - EXPERIMENTAL INVESTIGATION ON CAPACITY OF ELECTRICITY GENERATION OF PIEZOELECTRIC PATCHES MOUNTED OVER FLEXIBLE MEMBRANE WING
19:10 - 19:20	SINAN SARĞIN - NUMERICAL MODELING OF SOIL-STRUCTURE INTERACTION UNDER SEISMIC EFFECTS BY CONSIDERING SUB-BASE SOIL PROFILE AND COMPARISON WITH TURKISH BUILDING CODE
19:20 - 19:30	CIHAN ÖSER - DETERMINING THE DIMENSIONS OF CANTILEVER RETAINING WALLS ACCORDING TO THE PROPERTIES OF BACK FILLING MATERIAL
19:30 - 19:40	SEDA ÖNCÜ DAVAS - COMPARISON OF FINITE ELEMENT ANALYSIS MODELS ON TOWER OR CHIMNEY TYPE STRUCTURES
19:40 - 19:50	SEDA ÖNCÜ DAVAS - AN EARTHQUAKE-RESISTANT PIPE CONNECTION APPARATUS



<p>15:10 - 15:30 Coffee Break - Poster Presentations</p>	<p>1) MEHDI OUAHA - VARIABLE SPEED AIR CONDITIONING SYSTEM FED BY SOLAR PV SYSTEM DESIGN AND CONTROL 2) FOUAD TERNANE - EFFECT OF WELDING PARAMETERS IN THE RESISTANCE SPOT WELDED DISSIMILAR JOINTS: REVIEW AND SYNTHESIS 3) FOUAD TERNANE - OVERVIEW ON OPTIMISATION APPROACHES FOR RSW PARAMETERS AND WELDED JOINT QUALITY 4) MAIZA MOUNIRA - CHARACTERIZATION OF TOUGHENED POLY (LACTIC ACID) PLA/ POLYCAPROLACTONE (PCL) WITH BIO-PLASTICIZERS (TEC AND PEG3) 5) TALHI MAMA - MODELING FLOW ELECTRIFICATION PHENOMENON IN POWER TRANSFORMERS 6) AZZEDINE BENYAHIA - STUDY OF THE MECHANICAL PROPERTIES OF AN UNSATURATED POLYESTER COMPOSITE REINFORCED WITH THE WASTE OF: GLASS, SAND-GLASS MIXTURE, MIXTURE OF GLASS AND ALFA FIBERS 7) AZZEDINE BENYAHIA - STUDY THE ALKALI TREATMENT EFFECT ON THE MECHANICAL PROPERTIES: UNSATURATED POLYESTER/ GLASS FIBERS COMPOSITE 8) DEGHFEL NADIR - STUDY OF THE MECHANICAL PROPERTIES OF AN UNSATURATED POLYESTER COMPOSITE REINFORCED WITH THE LUFFA SPONGE FIBERS 9) BENGHALEM MOHAMED MUSTAPHA - OPTIMISATION OF PARAMETERS FOR THE DEVELOPMENT OF HIGH TEMPERATURE RESISTANT CRUCIBLE OBTAINED BY SLIP CASTING 10) BELBAH AHMED - IMPROVEMENT OF TRIBOLOGICAL PROPERTIES OF WC-CO BY NITROGEN ION IMPLANTATION 11) BELBAH AHMED - THE EFFECT OF ULTRAVIOLET IRRADIATION AND TEMPERATURE ON THE RESILIENCE OF HIGH DENSITY POLYETHYLENE (HDPE) 12) AKBAR ARABHOSSEINI - SOLAR DRUM DRYER EQUIPPED WITH PERFORATED DRUM FOR GRAINS 13) AKBAR ARABHOSSEINI - IMPROVEMENT OF THERMAL ENERGY IN ABSORBER PLATE OF SOLAR DRYER BY ADDING REFLECTORS 14) AKBAR ARABHOSSEINI - SHALLOW GEOTHERMAL ENERGY APPLICATION FOR GREENHOUSE THERMAL DEMANDS AGAINST OTHER RENEWABLE ENERGY RESOURCES 15) ATTOUTI SALIMA - STUDY OF THE MECHANISM OF ADSORPTION OF BASIC DYES BY IRF: SPECTROSCOPY 16) ATTOUTI SALIMA - NICKEL(II) ION ADSORPTION BY NITRIC ACID MODIFICATION OF ACTIVATED CARBON FROM OLIVE STONES 17) CHERAÏTA ABDALLAH - SYNTHESIS OF POLYPYRROLE AND COMPOSITES BY CHEMICAL AND ELECTROCHEMICAL OXIDATIVE POLYMERIZATION 18) BENZIANE MOURAD - DAMAGE DETECTION OF DISSOLVED OXYGEN SENSOR FOR WATER TREATMENT MONITORING USING SOFT SENSING 19) MOHAMMED ABDELGHANI BOUCHAALA - USING PROMETHEE AND TOPSIS FOR PRIORITIZING MAINTENANCE ACTIONS 20) WAHID BOURKHAROUA - STATISTICAL ANALYSIS OF DELAMINATION ON DRILLING OF FRP COMPOSITES USING RESPONSE SURFACE METHODOLOGY 21) DJOUADI AMEL - IMPACT OF THE TURBO-EXPANDER ON THE RECOVERY OF LIQUEFIED PETROLEUM GAS 22) DJOUADI AMEL - CHARACTERISTICS OF THE ALGERIAN CAROB 23) DJOUADI AMEL - BIETHANOL PRODUCTION FROM AGRO-FOOD WASTE 24) BETTADJ LATIFA - MACHINE LEARNING APPROACH TO FIND HIGH-PERFORMING FOR RENEWABLE ENERGY MATERIALS 25) CHITER AMMAR - EFFECTIVE METHOD FOR AUTOMATIC DETECTION AND DIAGNOSIS IN ROLLING ELEMENT BEARINGS USING OSG TEST 26) CHITER AMMAR - CLASSIFICATION OF REAL VIBRATORY BEARINGS SIGNALS BY INDEPENDENT COMPONENT ANALYSIS 27) MERZOUJI ABDELKRIM - THE EFFECT OF ENERGY AND MASS BALANCE CONSTRAINTS ON THE COST DESIGN OPTIMIZATION OF AN AUTO-THERMAL AMMONIA SYNTHESIS REACTOR 28) MERZOUJI ABDELKRIM - PREDICTING ADSORPTION ISOTHERMS PARAMETERS OF SOLUTE TRANSPORT IN POROUS MEDIA USING INVERSE METHOD 29) CHAHMANA NADIA - THE IMPACT OF ADDITION OF SURFACTANT AND ANTIMONY TO THE ELECTROLYTE OF FORMATION OF POSITIVE MASS ON THE PROPERTIES OF LEAD ACID BATTERIES 30) TOUHAMI MOHAMED ZINE - CORROSION BEHAVIOR OF HIGH-CR (HCR), LAMELLAR (LG) AND SPHEROIDAL GRAPHITE (SG) CAST IRONS IN DIFFERENT CORROSIVE MEDIA BY SLOPE OF LINEAR FITTING 31) HAMAOUICHE ABDELMALEK - IMPROVEMENT OF CONVECTIVE HEAT TRANSFER USING ULTRASONIC VIBRATIONS 32) ABDESLAM SAAD - STUDY OF THE INFLUENCE OF Cr ON MECHANICAL BEHAVIOR OF Fe-Cr ALLOY BY NUMERICAL SIMULATION 33) ABDESLAM SAAD - MOLECULAR DYNAMIC SIMULATION OF NANO-INDENTATION INDUCE MECHANICAL BEHAVIOR OF NANOSCALE METALLIC SINGLE LAYER 34) ABDESLAM SAAD - MOLECULAR DYNAMICS STUDY OF MECHANICAL BEHAVIOR OF C14G NANOWIRES 35) EBURU BARUT - INVESTIGATION OF THE WELDABILITY OF HIGH STRENGTH STEELS WITH LASER SPOT WELDING USING EXPERIMENTAL DESIGN METHOD 36) EBURU BARUT - ADDITIVE MANUFACTURING BASED HYBRID MACHINING: A REVIEW</p>
<p>15:10 - 15:30 Coffee Break - Poster Presentations</p>	<p>37) AHMED BAHLOUL - PHYTOEXTRACTION: THE USE OF CUMINUM CYMINUM AS BIOSORBENT TO REMOVE HEAVY METALS FROM WATER 38) GUERRI SOUAD - MICROSTRUCTURAL AND SPECTRAL PROPERTIES OF NANO-CERAMIC HYDROXYAPATITE 39) KIRATI OUAJDA - EXPERIMENTAL DESIGN FOR STATISTICAL MODELING AND OPTIMIZATION OF CO-AG ELECTRODEPOSITION PROCESS PARAMETERS 40) TALLAH FREKH - ANALYSIS AND SIMULATION OF CONTACT PROBLEMS IN SOLID MECHANICS 41) ALAMI KHADIJA - HOTELLING T2 CONTROL CHART VS MEWMA CHART: IN A MULTIVARIATE PROCESS 42) DJEMAI HOUCHE - MECHANICAL BEHAVIOUR OF SANDWICH PANELS WITH A NATURAL SOURCE 43) AOUATI AMEL - TOXICITY OF METHANOLIC EXTRACT OF THE LEAVES AND ACORNS OF THE CORK OAK ON CULEX PIPIENS 44) ALA BOULEGANE - EFFECT OF BATH CONTENT ON THE STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF ELECTRODEPOSITED CON THIN FILMS ONTO FTO SUBSTRATE 45) RAHIL OUMAR - LIMITATION OF PARALLEL FLOW IN AN ELONGATED CAVITY WITH CORRUGATED SURFACE 46) BAKHOUICHE BELKACEM - ANALYSIS OF THE OPTICAL PROPERTIES OF TiO2 THIN FILMS BY MULLER ELLIPSOMETER 47) DJEBLOUN YUCEF - MECHANICAL BEHAVIOR OF A BIO-COMPOSITE REINFORCED BY SHORT FIBERS OF THE DATE PALM TREE 48) BEHNI KHALISSA - MODELING AND NONLINEAR ADAPTIVE CONTROL OF PIEZOELECTRIC ACTUATORS 49) LAMOURI SAMIR - PHASE TRANSFORMATION AND TRANSITIONS ALUMINA PATHWAY BY FOR XDR IN SITU: COARSE AND ATTRITION MILLED BOEHMITE TO <math>\alpha</math>-ALUMINA RAW POWDER 50) LAMOURI SAMIR - INFLUENCE OF COLD ISOSTATIC PRESSING AND HEATING RATE ON DENSIFICATION AND MICROSTRUCTURE OF NANO GAMMA-AL2O3 PARTICLES 51) LAMOURI SAMIR - MECHANICAL CHARACTERIZATION BY INSTRUMENTED INDENTATION OF NANO GAMMA-AL2O3 PARTICLES 52) ALLOUANE TOUFIK - TECHNOLOGICAL STUDY OF POLISHING ANIMATED BY A VIBRATORY MOVEMENT 53) ALLOUANE TOUFIK - TECHNOLOGICAL PARAMETERS VARIATION ON THE SURFACE TEXTURE OF HARD STEEL DURING BELT GRINDING PROCESS 54) HAMDY AHMED - INFLUENCE OF THE BOUNDARY CONDITION AND SMALL-SCALE ON THE FREE VIBRATION OF A SINGLE-WALLED CARBON NANOTUBE (SWCNT) 55) MOULOUB BIRANE - SIMULATION AND ANALYSIS OF THE PERFORMANCE OF DIFFERENT DC/DC CONVERTERS CONNECTING TOPOLOGIES WITH SHADING EFFECT IN PHOTOVOLTAIC SYSTEM 56) MOUSSELI ABDELKRIM - COMBINATION OF ENVELOPE EXTRACTION AND MULTIREGION ANALYSIS FOR INNER RACE FAULT (IRF) DIAGNOSIS IN ROTATING MACHINERY 57) IVAN OULAR, KRŠMIR VUKOVIĆ - OPTIMIZING SINGLE TOOTH BENDING FATIGUE FIXTURE RIGIDITY FOR MINIMIZING THE EFFECT OF FRICTION ON NOMINAL TOOTH ROOT STRESS RESULTS 58) DOMAGOJ LANC - FUNCTIONALLY GRADED BEAM BUCKLING ANALYSIS VIA BUBNOV-GALERKIN METHOD 59) DJOUADI TAREK - PHYSICO-MECHANICAL EFFICIENCY OF A COMPOSITE MATERIALS BASED ON DATE PALM TREE FIBERS DURING TENSILE TEST 60) KABA LIAMINE - MICROSTRUCTURAL AND MECHANICAL STUDY OF AN AZ31 MAGNESIUM ALLOY WELD BY THE TIG PROCESS 61) TALEB MOUJIA - A POLICY TO STRENGTHEN HEALTH AND SAFETY AT WORK IN CEMENT FACTORIES 62) TALEB MOUJIA - CONTRIBUTION OF THE MAINTENANCE OF A HYDRAULIC PUMP BY THE RCA METHOD CASE STUDY OF A SLUDGE PUMP IN A REFINERY 63) DERBAL HALIMA - ENERGY ANALYSIS OF THE SOLAR ENERGY CONTRIBUTION IN SOLAR HYBRID COMBINED-CYCLE POWER PLANTS 64) DERBAL HALIMA - ADAPTIVE SYNERGETIC CONTROL OF AN UNDERACTUATED SYSTEM 65) AHMED MOHAMMED - MINIMIZATION OF PV PRODUCTION LOSSES BY ESTIMATING TOLERATED ERRORS OF PV INSTALLATION IN ALGERIA 66) AFSHIN AHMADI NADOOSHAN - NUMERICAL STUDY OF NATURAL CONVECTION HEAT TRANSFER IN A SQUARE ENCLOSURE AND OPTIMIZATION OF THE ASPECT RATIO 67) AFSHIN AHMADI NADOOSHAN - EVALUATION OF SOLAR REFRIGERATOR PERFORMANCE USING AMMONIA WATER ABSORPTION CYCLE IN SHAHREKORD CLIMATIC CONDITIONS 68) AFSHIN AHMADI NADOOSHAN - STAGNATION FLOW ANALYSIS USING HOMOTOPY PERTURBATION METHOD 69) KHEMLICHE MABROUK - MONITORING AND CONTROL OF PHOTOVOLTAIC INSTALLATION USING LORA TECHNOLOGY 70) KHEMLICHE MABROUK - SENSORS PLACEMENT FOR FAULTS DETECTION IN THE PHOTOVOLTAIC SYSTEM 71) KHEMLICHE MABROUK - SLIDING MODE OBSERVER IN COMMUNICATION DESIGN OPTIMIZATION</p>
<p><b>SESSION CHAIRMAN: NADER JAVANI, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b></p>	
<p>15:30 - 15:40</p>	<p>NITESH MONDAL - PRESSURE COMPENSATOR DESIGN AND PERFORMANCE EVALUATION OF A VARIABLE DISPLACEMENT SWASH PLATE TYPE AXIAL PISTON PUMP</p>
<p>15:40 - 15:50</p>	<p>MANEL HANNACHI - DEVELOPMENT AND CHARACTERIZATION OF A COMPOSITE BASED ON POLYURETHANE AND OLIVE KERNEL POWDER</p>
<p>15:50 - 16:00</p>	<p>AMIT BHOWMICK - ENERGY AND EXERGY ANALYSIS OF A DOUBLE STAGE DOUBLE EFFECT VAPOUR ABSORPTION REFRIGERATION SYSTEM</p>
<p>16:00 - 16:10</p>	<p>MAHMUT KAPLAN - CORRELATIONS FOR CALCULATION OF RELATIVE THERMAL CONDUCTIVITY OF NANOFLUIDS USING DIMENSIONLESS PARAMETERS</p>
<p>16:10 - 16:20</p>	<p>MAHMUT KAPLAN - CORRELATIONS FOR CALCULATION OF RELATIVE DYNAMIC VISCOSITY OF NANOFLUIDS USING DIMENSIONLESS PARAMETERS</p>
<p>16:20 - 16:30</p>	<p>BOUREGAA MOUWEFFEQ - STANDARD COMMERCIAL FTTH-PON INFRASTRUCTURE USING WDM TECHNIQUE</p>
<p><b>SESSION CHAIRMAN: MUHAMMET CAMCI, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b></p>	
<p>16:30 - 16:40</p>	<p>ZERGANE SAID - EFFECT OF TURBULENCE ON THE POWER OF A WIND TURBINE</p>
<p>16:40 - 16:50</p>	<p>AMIRA ABERKANE - CONSTRUCTION OF AN ADVANCED PERFORMANCE INDICATOR SYSTEM HEALTH, SAFETY BY THE ECO-GRAI METHOD: CASE OF NAFTAL-CBR-BATNA-ALGERIA</p>
<p>16:50 - 17:00</p>	<p>OUADAH WAHID - LIMIT LOAD ANALYSIS OF BONDED COMPOSITE REPAIR IN CRACKED GAS- PIPELINES UNDER PRESSURE</p>
<p>17:00 - 17:10</p>	<p>MELLOUL AHLEM - SYNTHESIS, STRUCTURE AND MAGNETIC PROPERTIES OF COXFE100-X THIN FILMS THERMALLY EVAPORATED ONTO AMORPHOUS SILICON SUBSTRATE</p>
<p>17:10 - 17:20</p>	<p>EMRE KARA - NUMERICAL INVESTIGATION OF JET ORIENTATION USING CO-FLOW THRUST VECTORING WITH COANDA EFFECT</p>
<p>17:20 - 17:30</p>	<p>EMRE KARA - THERMAL ANALYSIS OF AN ANTI-ICING SYSTEM FOR A NACA 4412 AIRFOIL</p>
<p>17:30 - 17:40</p>	<p>EMRE KARA - NUMERICAL INVESTIGATION OF THE AERODYNAMIC PERFORMANCE OF A LOW REYNOLDS NUMBER S809 WIND TURBINE AIRFOIL</p>
<p>17:40 - 17:50</p>	<p>MOHAMMED-AMIN MELHEGUEG - PARAMETRIC ANALYSIS ON THE STABILITY OF THE GRBM MODEL</p>
<p>17:50 - 18:00</p>	<p>FARID BOUKEZZI - SURFACE ROUGHNESS PREDICTION USING ANN AND RSM. A COMPARATIVE STUDY</p>
<p>18:00 - 18:10</p>	<p>BELKHIRI MOHAMMED - HIGH GAIN OBSERVER BASED ACTIVE DISTURBANCE ESTIMATION ADE FOR SECOND ORDER NONLINEAR UNCERTAIN SYSTEMS</p>
<p>18:10 - 18:20</p>	<p>ZOI SAGIA - INFLUENCE OF BUILDING ENVELOPE IN DIMENSIONING AN OPEN CIRCUIT GEOTHERMAL HEAT PUMP SYSTEM</p>
<p>18:20 - 18:30</p>	<p>MAHRI ZINE LABIDINE - A STATISTICAL ANALYSIS OF BUILDING TEMPERATURE FOR DIFFERENT CLIMATES IN ALGERIA</p>
<p>18:30 - 18:40</p>	<p>IBRAHIM HALIL YILMAZ - PREDICTION OF SHORT-TERM GLOBAL IRRADIATION FOR SOLAR THERMAL APPLICATIONS BY OPTIMIZED MACHINE LEARNING MODEL</p>
<p>18:40 - 18:50</p>	<p>IBRAHIM HALIL YILMAZ - AN EXPERIMENTAL INVESTIGATION ON THE THERMAL PERFORMANCE OF A SOLAR-ASSISTED PROCESS HEAT APPLICATION</p>
<p>18:50 - 19:00</p>	<p>ATAHAN ERBUL - INFLUENCES OF EDM PARAMETERS ON MATERIAL REMOVAL RATE AND SURFACE ROUGHNESS</p>
<p>19:00 - 19:10</p>	<p>FERROUDJ NAWAL - NUMERICAL SIMULATION OF PRANDTL NUMBER EFFECT ON ENTROPY GENERATION IN A SQUARE CAVITY</p>
<p>19:10 - 19:20</p>	<p>MEHMET SALIH ÇELLEK - INVESTIGATION OF CONVERGENCE CRITERIA IN A COMBUSTION SIMULATION USING A DETAILED CHEMICAL KINETIC MECHANISM</p>
<p>19:20 - 19:30</p>	<p>MEHMET SALIH ÇELLEK - EFFECT OF THERMAL LOAD AND EXCESS AIR COEFFICIENT ON COMBUSTION PRODUCTS IN A NATURAL GAS-FIRED BURNER-BOILER</p>
<p>19:30 - 19:40</p>	<p>ŞAKİR BERBER - INVESTIGATION OF THE COAL AND BIOMASS FUELS EFFECTS ON BOILER EFFICIENCY IN COGENERATION POWER PLANTS</p>

**YILDIZ TECHNICAL UNIVERSITY BEŞİKTAŞ CAMPUS - 18 DECEMBER 2019**

**HALL C**

08:00 - 08:20	REGISTRATION AND COFFEE BREAK
	<b>SESSION CHAIRMAN: AHMET SELİM DALKILIÇ, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
08:20 - 08:30	BURAK ATİK - THE INVESTIGATION OF PULL OUT PERFORMANCE FOR PURE MAGNESIUM BONE SCREWS IN BIODEGRADATION PERSPECTIVE
08:30 - 08:40	AKIN İLHAN - AERODYNAMIC CHARACTERISTICS OF IDENTICAL HORIZONTAL AXIS WIND TURBINES IN EASTERN MEDITERRANEAN REGION OF TURKEY
08:40 - 08:50	NEJAT TÜKENMEZ - THERMODYNAMIC ANALYSIS OF STEAM INJECTED GAS TURBINE BASED INTEGRATED SYSTEM USING A MODEL BASED SYSTEMS ENGINEERING APPROACH
08:50 - 09:00	HANDE SEZGİN - THE CURING AND POST-CURING EFFECT ON DROP-WEIGHT IMPACT BEHAVIOR OF BIO-COMPOSITES
09:00 - 09:10	HANDE SEZGİN - UTILIZING TEXTILE WASTES AS REINFORCEMENT MATERIALS IN CONCRETES
09:10 - 09:20	MUMİN TOLGA EMİRLER - ACTIVE INDEPENDENT FRONT STEERING BASED VEHICLE YAW STABILITY CONTROL
09:20 - 09:30	SAJAD HAYATİ - SEISMIC VIBRATION REDUCTION OF A MULTISTORY BUILDING VIA OPTIMIZED TUNED MASS DAMPERS
09:30 - 09:40	RAHMOUN AMEL - HIV-1 MODEL OPTIMAL CONTROL
09:40 - 09:50	BERKAY ERGENE - A REVIEW ON 4D PRINTING TECHNOLOGY AND APPLICATIONS
09:50 - 10:00	BERKAY ERGENE - THE INFLUENCE OF RIB THICKNESS AND CELL ORIENTATION ON TENSILE BEHAVIOUR OF VARIOUS TOPOLOGIES PRODUCED FROM ABS MATERIAL WITH ADDITIVE MANUFACTURING
10:00 - 10:10	BERKAY ERGENE - ADDITIVE MANUFACTURING SIMULATION OF CELLULAR STRUCTURES TO DETERMINE RESIDUAL STRESS AND DIMENSIONAL CHANGE
10:10 - 10:20	MÜSLÜME KÖŞKER - A STATISTICAL ANALYSIS FOR DRAG REDUCTION IN TWO PHASES PIPE FLOWS
10:20 - 10:30	MELİKE YILDIZ - SYNTHESIS AND CHARACTERIZATION OF PLASMA POLYMERIZED POLYANILINE THIN FILMS ON Ti6AL4V ALLOY
10:30 - 10:40	HARUN KOÇAK - EFFECT OF HEAT TREATMENT APPLIED TO 3D PRINTED PLA SAMPLES ON MECHANICAL PROPERTIES
10:40 - 11:00	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: ANIL AKDOĞAN, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
11:00 - 11:10	FATİH GÜVEN - CONTACT PRESSURE LOSSES IN SHRINK FITTED ASSEMBLY DUE TO TRIANGULAR HUB FORM
11:10 - 11:20	TOLGA BARIŞIK - CALCULATION OF DANGER ZONES THAT CAN BE FORMED AS A RESULT OF CNG (COMPRESSED NATURAL GAS) COMPRESSED GAS TUBES USED IN DYEHOUSES AND SELECTION OF SUITABLE EQUIPMENT
11:20 - 11:30	KAĞAN ÖZERK - FLOW RATE INCREASE IN THE FORWARD CURVED CENTRIFUGAL FAN USING CFD SIMULATIONS
11:30 - 11:40	MUSTAFA DAĞDELEN - FRICTION TORQUE ESTIMATION OF VANE TYPE SEMI-ROTARY PNEUMATIC ACTUATORS IN THE FORM OF COMBINED COULOMB-VISCOUS MODEL
11:40 - 11:50	ÖNDER AYER - AN ANALYSIS OF AN ALUMINUM EXTRUSION MODEL WITH PORTHOLE DIES
11:50 - 12:00	KAMER ÖZGE ARSLAN - ELECTROCHEMICAL AND SEMICONDUCTING PROPERTIES OF PLASMA OXIDIZED COCRW IMPLANT MATERIAL PRODUCED BY SELECTIVE LASER MELTING (SLM)
12:00 - 13:20	LUNCH
13:20 - 13:40	POSTER PRESENTATIONS - HALL B- COFFEE BREAK
	<b>SESSION CHAIRMAN: HASAN KÖTEN, İSTANBUL MEDENİYET UNIVERSITY, TURKEY</b>
13:40 - 13:50	ONUR ARSLAN - FRACTURE PARAMETERS IN THE SLIDING FRICTIONAL CONTACT PROBLEM OF LATERALLY GRADED MATERIALS
13:50 - 14:00	KEMAL KOCA - IMPROVEMENT OF COMPOSITE WIND TURBINE BLADE PROPERTIES USING GLASS FIBER AND NANOFLUID-GRAPHENE
14:00 - 14:10	RAMAZAN ÖZKAN - EXPERIMENTAL INVESTIGATION OF STRUCTURAL PROPERTIES OF NANOFLUID-GRAPHENE REINFORCED EPOXY
14:10 - 14:20	SİNEM ÖKSÜZ - ON THE VERIFICATION AND VALIDATION OF FLOW AROUND SUPERSTRUCTURE OF A SURFACE COMBATANT
14:20 - 14:30	METEHAN DEMİRKOL - EFFECTS OF TITANIUM DIOXIDE NANOPARTICLE REINFORCEMENT TO THE HARDNESS AND WEAR RATE OF PHOTOCATALYTIC PMMA COMPOSITES
14:30 - 14:40	TUĞÇE NOYA - MODELLING OF A PHASE CHANGE MATERIAL (PCM) INTEGRATED COOLING SYSTEM AND VERIFICATION OF THE MODEL
14:40 - 14:50	TUĞÇE NOYA - ENHANCING THE PERFORMANCE OF A REFRIGERATION SYSTEM WITH PHASE CHANGE MATERIAL (PCM) INTEGRATED EVAPORATOR
14:50 - 15:00	MOHSEN GOODARZİ - NEW COUNTER-CURRENT FLOW DIVISION FOR IMPROVING THERMO-HYDRAULIC PERFORMANCE OF A DOUBLE-PASS HEAT EXCHANGER
15:00 - 15:10	SYED MUJIBUR RAHMAN - ROLE OF TIME STEP SETTING ON THE CFD RESULT OF DARRIEUS-TYPE VERTICAL AXIS WIND TURBINE
15:10 - 15:30	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: BERNA BOLAT, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
15:30 - 15:40	PRASUN DUTTA - NUMERICAL SIMULATION OF HEAT TRANSFER DUE TO ARRAY OF LAMINAR ANNULAR JETS IMPINGING ON HOT MOVING SURFACE
15:40 - 15:50	SUJIT SAHA - A SEMI-ANALYTICAL APPROACH TO DETERMINE THE EDL POTENTIAL DISTRIBUTION IN RECTANGULAR MICROCHANNEL
15:50 - 16:00	BOUTABOUT BENALİ - EFFECTS OF GEOMETRIC PARAMETERS OF THE IMPLANT ON THE MECHANICAL BEHAVIOR OF DENTAL STRUCTURES
16:00 - 16:10	KARIM BIO GASSI - MICROGRID AGGREGATED LOAD SHORT-TERM FORECASTING USING A LONG SHORT TERM MEMORY RECURRENT NEURAL NETWORK
16:10 - 16:20	KARIM BIO GASSI - PHASE CHANGE MATERIAL BASED HEAT STORAGE ANALYSIS FOR ITS INTEGRATION INTO RENEWABLE MICROGRID
16:20 - 16:30	NAVİD MONSHİ TOUSİ - ACTIVE FLOW CONTROL ON SD7003 AIRFOIL USING SYNTHETIC JETS
	<b>SESSION CHAIRMAN: YASİN KARAGÖZ, İSTANBUL MEDENİYET UNIVERSITY, TURKEY</b>
16:30 - 16:40	MAHDJOUR TAHAR - GRAVITATIONAL SEARCH ALGORITHM OPTIMIZATION OF MULTISHAPS RF MEMS SWITCH
16:40 - 16:50	ABDELAZİZ LAİFA - USE OF HYBRID PARTICLE SWARM OPTIMIZATION AND GREY WOLF OPTIMIZER FOR OPTIMAL LOCATION AND SIZE OF DISTRIBUTED GENERATION
16:50 - 17:00	LAICHE ATİF - SIMULATION OF AIRCRAFT WING A300 SUBJECTED TO DIFFERENT TYPE OF FORCES USING ANSYS WORKBENCH
17:00 - 17:10	PRAMOD WANKHADE - TRANSIENT HEAT TRANSFER ANALYSIS OF AN ANNULAR WET FIN FOR DEHUMIDIFICATION OF AIR
17:10 - 17:20	MELTEM ERYILDIZ - A CASE STUDY ON THE GENERATION OF TREE-LIKE SUPPORTS FOR FUSED DEPOSITION MODELLING
17:20 - 17:30	MOHAMMAD ZUBİ - ECONOMIC IMPACT OF PARTIAL REPLACEMENT OF DIESEL GENERATORS BY WIND TURBINES IN A SITE RELATED TO ROYAL ARMED FORCES
17:50 - 18:00	MOHAMMAD ZUBİ - ENVIRONMENTAL IMPACT OF INTEGRATING WIND TURBINES TO DIESEL GENERATORS OPERATING AT ONE OF THE ROYAL JORDANIAN AIR FORCE SITES
18:00 - 18:10	BENACHOUR MUSTAPHA - MECHANICAL BEHAVIOR OF SPOT WELDED JOINTS FOR DIFFERENTS DESIGN IN MILD ROLLED STEEL SHEETS
18:10 - 18:20	MEHMET ALPER SOFUOĞLU - THE APPLICATION OF FULL CONSISTENCY METHOD (FUCOM) FOR DIFFERENT NON-TRADITIONAL MACHINING SELECTION PROBLEMS
18:20 - 18:30	MEHMET ALPER SOFUOĞLU - STRUCTURAL HEALTH MONITORING AND ITS APPLICATIONS IN MANUFACTURING ENVIRONMENT
18:30 - 18:40	MEHMET ALPER SOFUOĞLU - LOW FREQUENCY VIBRATION ASSISTED TURNING OF INCONEL-100 MATERIAL: A SIMULATION STUDY
18:40 - 18:50	ABDULLAH DEMİR - EFFECT OF TEMPERATURE ON BRAKING PERFORMANCE
18:50 - 19:00	ENDER İNCE - THE COMPARISON BETWEEN POWER-SPLIT INFINITELY VARIABLE TRANSMISSION AND CONVENTIONAL TRANSMISSION ON FUEL CONSUMPTION ANALYSIS
19:00 - 19:10	ECE AYLI - NUMERICAL ANALYSIS OF MIXED CONVECTION IN A CHANNEL WITH OPEN CAVITY
19:10 - 19:20	ECE AYLI - AN EXPERIMENTAL STUDY OF FLOW OVER NACA PROFILE WITH WAVY LEADING EDGE MODIFICATION
19:20 - 19:30	TAHA ÇALIŞKAN - ANALYTICAL AND NUMERICAL INVESTIGATION OF FATIGUE LIFE IN NATURAL FIBER REINFORCED COMPOSITES

## YILDIZ TECHNICAL UNIVERSITY BEŞİKTAŞ CAMPUS - 19 DECEMBER 2019

## HALL A

08:00 - 08:20	REGISTRATION AND COFFEE BREAK
	<b>SESSION CHAIRMAN: ABDÜLKERİM OKBAZ, DOĞUŞ UNIVERSITY, TURKEY</b>
08:20 - 08:30	MEHMET OĞUZ TAŞCI - THE INFLUENCE OF A TRANSVERSELY AND COAXIALLY ORIENTED WIRE ON THE LOCATION OF VORTEX BREAKDOWN
08:30 - 08:40	HALUK ANIL KÖSE - DESIGN OPTIMIZATION OF TRIANGULAR MICROCHANNEL HEAT SINK USING GENETIC ALGORITHM
08:40 - 08:50	YASIN YILMAZ - INVESTIGATION OF CHIP BREAKER AND ITS EFFECT IN TURNING OPERATIONS
08:50 - 09:00	CİHAN DEMİRCAN - ELECTRICAL, THERMAL AND NUMERICAL INVESTIGATION OF PARABOLIC-BASED CPVT SYSTEM PERFORMANCE ANALYSIS
09:00 - 09:10	BADİS BENNECER - STABILITY, ELASTIC AND VIBRATIONAL PROPERTIES OF COPDX (X=GA AND SN)
09:10 - 09:20	MAMOUN SOUHEYLA - NUMERICAL MODELING OF PHONONS FREQUENCIES OF SEMICONDUCTORS NANOWIRES FOR FUTURE SOLAR CELLS
09:20 - 09:30	HADİ TAGHAVİFAR - OPTIMAL CALIBRATION OF INJECTOR AND COMBUSTION CHAMBER STRUCTURE BY GENETIC ALGORITHM
09:30 - 09:40	MERAD ABDELKRİM - IMPROVED OPTOELECTRONIC AND THERMAL PROPERTIES OF SEMICONDUCTOR CHALCOPYRITE UNDER STRESS EFFECT FOR SOLAR CELLS APPLICATION
09:40 - 09:50	ALA HİJAZİ - EFFECT OF CAMERA'S FOCAL PLANE ARRAY FILL FACTOR ON DIGITAL IMAGE CORRELATION MEASUREMENT ACCURACY
09:50 - 10:00	SEKKAL DJAZIA NADJAT - FLOW SHOP GROUP SCHEDULING SEQUENCE DEPENDENT SETUP TIME WITH LEARNING EFFECT
10:00 - 10:10	FARANAK MANSHAEI - EFFECT OF ALTERNATIVE FLOW ON THE MORPHOLOGY OF NANOFIBERS MADE BY ELECTROSPINNING
10:10 - 10:20	VINOD SURYAWANSHI - EXPERIMENTAL INVESTIGATIONS ON EFFECT OF DISPERSION AND DEPOSITION METHODS ON MECHANICAL PROPERTIES OF NANOSILICA/EPOXY NANOCOMPOSITES
10:20 - 10:30	BENALİA NADİA - TRANSIENT STABILITY ANALYSIS OF POWER SYSTEM WITH HYBRID SOLAR-WIND GENERATORS
10:30 - 10:40	BOUMAİZA MALİKA - ANALYSIS THE EFFECT OF THE SUPERSTRUCTURE LOADING ON THE STABILITY OF A SOIL REINFORCED BY BALLASTED COLUMNS
10:40 - 11:00	SEMINAR - HUSEYİN R. HIZIROĞLU - STATE OF THE RENEWABLE ENERGY IN THE USA
	<b>SESSION CHAIRMAN: DENİZ ULUSARSLAN, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
11:00 - 11:10	MELLAH HACENE - SIMULATION OF THE STATOR AND ROTOR WINDING TEMPERATURE OF THE INDUCTION MACHINE FOR CONTINUOUS SERVICE -SERVICE TYPE S1 - OPERATION FOR DIFFERENT FREQUENC
11:10 - 11:20	MADI RAFİK - REHABILITATION OF REINFORCED CONCRETE BUILDINGS AGAINST THE EARTHQUAKE
11:20 - 11:30	DİB JALEL - OPTIMAL LOAD FLOW STUDY FOR IMPROVING THE STABILITY OF POWER GRID
11:30 - 11:40	HAMİMİD MOURAD - ULTRASONIC PULSE VELOCITY AND MORPHOLOGY OF HIGH STRENGTH CONCRETE WITH PVC WASTE AGGREGATE
11:40 - 11:50	MANOLYA AKDEMİR - COMPARISON OF DIFFERENT METHODS FOR PERFORMANCE IMPROVEMENT OF AN ELECTRICAL SUBMERSIBLE PUMP IN A CASE STUDY
11:50 - 12:00	MANOLYA AKDEMİR - RESPONSE SURFACE OPTIMIZATION METHOD AN EXISTING SUBMERSIBLE PUMP
12:00 - 13:00	LUNCH
13:00 - 13:20	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: HAKAN DEMİR, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
13:20 - 13:30	MEHMET ZİYA OKUR - DETERMINATION OF ENERGY ABSORPTION CAPACITY OF ARMORS USING FINITE ELEMENT ANALYSIS
13:30 - 13:40	MEHMET ZİYA OKUR - DESIGN & PRODUCT DEVELOPMENT APPLICATION OF THE V-TORQUE ROD WITH TRIZ APPROACH
13:40 - 13:50	JABER SALAMAT - DESIGN, FABRICATION AND EVALUATION OF SINGLE PALLET CONCRETE PAVER AND BLOCK MAKING MACHINE FITTED WITH TWO SYNCHRONIZED UNBALANCED VIBRATORS
13:50 - 14:00	AYŞENUR HATİPOĞLU - APPLICATION OF FIBER OPTIC SENSORS FOR HELICOPTER BLADE DEFORMATION
14:00 - 14:10	SİNAN DAYI - EFFECT OF CONE NUT SHAPE ON REDUCING TORQUE LOOSENING AFTER LOADING OF TIE-ROD COMPONENT
14:10 - 14:20	HAMDİ SELÇUK ÇELİK - NUMERICAL ANALYSING HEAT TRANSFER PERFORMANCE AFFECTION OF TURBULATOR INVOLVEMENT IN A CIRCULAR PIPE INLET SURFACE FLOW
14:20 - 14:30	UFUK KAYAHAN - SIMULATION AND DESIGN OF 30KWTH PRESSURIZED FLUIDIZED BED OXY COMBUSTION SYSTEM
14:30 - 14:40	UFUK KAYAHAN - TECHNO-ECONOMIC COMPARISON OF CARBON CAPTURE AND STORAGE TECHNOLOGIES
14:40 - 14:50	SAVAŞ KAYACI - STRESS RELAXATION MODELİNG OF A SUSPENSION COMPONENT USED İN ROLLİNG STOCK
14:50 - 15:00	ADEM KAYAR - ADVANCED MANUFACTURING WITH INDUSTRY 4.0 APPLICATIONS
15:00 - 15:20	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: OMİD MAHİAN, XI'AN JİATONG UNIVERSITY, TURKEY</b>
15:20 - 15:30	AYFER KESEN - COMPARISON OF TRIBOLOGICAL PERFORMANCE OF NANO SILVER ADDED CUTTING FLUIDS, BORON OIL AND DRY CUTTING FOR SUSTAINABLE MANUFACTURING
15:30 - 15:40	TUĞRUL AKYOL - EFFECTS OF TRANSMISSION PIPELINE RENOVATION IN A DISTRICT HEATING SYSTEM
15:40 - 15:50	TUĞRUL AKYOL - EFFECTS OF HEAT METER USAGE ON ENERGY CONSUMPTION OF DISTRICT HEATING SYSTEMS
15:50 - 16:00	OMER CAGRI TUNC - DISCUSSIONS ON CRITICAL VELOCITY IN TUNNEL FIRES
16:00 - 16:10	MUSTAFA ÖZ - PERFORMANCE ANALYSIS OF AN ORGANIC RANKINE CYCLE SYSTEM USING CONCENTRATED SOLAR SYSTEM COUPLED WITH PHOTOVOLTAIC PANELS
16:10 - 16:20	NİMA MİRZAEI - DETERMINING THE MINIMUM NUMBER OF WORKSTATIONS FOR A PRODUCTION LINE BASE ON A STRAIGHT-LINE LAYOUT
16:20 - 16:30	RAHELEH NOWZARİ - DESIGN AND ANALYSIS OF A LOW COST SOLAR AIR COLLECTOR WITH POROUS MEDIA
	<b>SESSION CHAIRMAN: NEDİM SÖZBİR, SAKARYA UNIVERSITY, TURKEY</b>
16:30 - 16:40	OSMAN YUKSEL - VIBRATION ISOLATOR DESIGN WITH TRUSS-LIKE INERTIAL AMPLIFICATION MECHANISMS
16:40 - 16:50	OZAN ŞEN - SOLAR AND GEOTHERMAL ENERGY ASSISTED COMBINED MULTIGENERATIONAL SYSTEM FOR POWER GENERATION
16:50 - 17:00	MURAT REİS - EXPERIMENTAL INVESTIGATION OF THE EFFECT OF CARBON FIBER REINFORCEMENT ON COLLISION PERFORMANCE IN ALUMINUM CRASH BOXES
17:00 - 17:10	CEYHUN İBOLAR - ANALYSIS AND IDENTIFICATION OF DRIVER POSTURE AND STATE OF MIND
17:10 - 17:20	ALİ İHSAN KOCA - BOILING HEAT TRANSFER SIMULATION IN RECTANGULAR MILI CHANNELS
17:20 - 17:30	ERHAN AKDOĞAN - WEARABLE UPPER LIMB EXOSKELETAL ROBOT MANIPULATOR DESIGN
17:30 - 17:40	ERHAN AKDOĞAN - HYBRID DATA FUSION CONCEPT IN EXOSKELETAL ROBOT MANIPULATORS
17:40 - 17:50	CEMİL KOYUNOĞLU - CHARACTERIZATION OF CHARS OBTAINED IN LIQUEFACTION OF LIGNITE AND ALGAE TOGETHER
17:50 - 18:00	CEMİL KOYUNOĞLU - REMOVAL OF ORGANIC SULFUR FROM COAL WITH SOLVENT EXTRACTION METHOD
18:00 - 18:10	CEMİL KOYUNOĞLU - SULFUR REMOVAL FROM ELBİSTAN LIGNITE WITH PEROXIDE LEACHING PROCESS (H2O2/H2SO4)
18:10 - 18:20	CEMİL KOYUNOĞLU - BEYOND BP'S ENERGY OUTLOOK AND HOW INDUSTRY OF ENERGY BEING SUSTAINABLE: ALGAL BIOFUEL TECHNOLOGY
18:20 - 18:30	RAMİN HASHEMİ - FORMING LIMIT DIAGRAMS OF ALUMINUM-POLYMER SANDWICH COMPOSITES
18:30 - 18:40	MEHMET TURGUT KAHVECİ - VISCOUS DAMPER TUNING FOR REDUCTION OF CRANKSHAFT TORSIONAL VIBRATIONS
18:40 - 18:50	SEDRAOUI MOUSSA - PERTURB AND OBSERVE-MPPT ALGORITHM IN INDIRECT MODE CONTROL USING PID REGULATOR FOR PHOTOVOLTAIC SYSTEM
18:50 - 19:00	MOHCENE BECHOUAT - CURRENT REGULATION USING PID REGULATOR WITH P&O-MPPT ALGORITHM FOR PHOTOVOLTAIC SYSTEM
19:00 - 19:10	ERKİN DUMAN - A REVIEW OF ULTRASONIC ASSISTED HYBRID MACHINING: METHODS AND APPLICATIONS

08:00 - 08:20	REGISTRATION AND COFFEE BREAK
	<b>SESSION CHAIRMAN: YAKUP KARAKOYUN, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
08:20 - 08:30	N. OZGUR AYDIN - A PROGRAM FOR CALCULATION OF THERMAL CONDUCTIVITY AND VISCOSITY OF GAS MIXTURES
08:30 - 08:40	BİLAL KURŞUNCU - MACHINABILITY OF Ti6Al4V SUPERALLOY WITH NANOCOMPOSITE COATED CUTTING TOOL
08:40 - 08:50	BİLAL KURŞUNCU - THE EFFECT OF CRYOGENIC HEAT TREATMENT ON NANO-LAYER COATED CUTTING TOOLS ON INCONEL 718 MACHINABILITY
08:50 - 09:00	BİLAL KURŞUNCU - THE EFFECT OF CRYOGENIC HEAT TREATMENT ON THE WEAR BEHAVIOR OF TIN HARD COATING
09:00 - 09:10	ABID USTAĞLU - ADVANCED EXERGETIC ANALYSIS OF A CASCADE REFRIGERATION SYSTEM USING R134a WORKING FLUID
09:10 - 09:20	ABID USTAĞLU - PARAMETRIC STUDY OF A VAPOR COMPRESSION CASCADE REFRIGERATION CYCLE WITH ISENTROPIC, WET AND DRY WORKING FLUIDS; AN EXERGETIC APPROACH
09:20 - 09:30	CENGİZ ERDÖNMEZ - COMPACTED WIRE ROPE CONTACT BEHAVIOR UNDER AXIAL LOADING CONDITIONS
09:30 - 09:40	SELÇUK SARIKOÇ - AN EXPERIMENTAL INVESTIGATION OF THE GASOLINE-METHANOL FUEL BLEND EFFECTS ON THE ENGINE PERFORMANCE, COMBUSTION AND EMISSIONS OF SI ENGINE
09:40 - 09:50	SELÇUK SARIKOÇ - EFFECTS OF HYDROGEN ADDITION ON ENERGY AND EXERGY ANALYSIS OF A DIESEL ENGINE OPERATING WITH DIESEL-BIODIESEL
09:50 - 10:00	NURULLAH GÜLTEKİN - EFFECT OF TIRE AIR PRESSURE ON VEHICLE INTERIOR NOISE
10:00 - 10:10	NURULLAH GÜLTEKİN - EFFECT OF PARKING SENSOR TO PREVENT CHILD ACCIDENTS
10:10 - 10:20	SAVAŞ YELBEY - THE EFFECTS ON ENGINE PERFORMANCE AND EXHAUST EMISSIONS OF GASOLINE-BIOETHANOL (E20) BLEND
10:20 - 10:30	İLKER ÖRS - THE EXPERIMENTAL OPTIMIZATION FOR ENGINE PERFORMANCE AND EXHAUST EMISSION CHARACTERISTICS AT DIFFERENT IGNITION TIMES OF USE BIOETHANOL AS FUEL FOR SI ENGIN
10:30 - 10:40	İLKER ÖRS - INVESTIGATION OF THE EFFECTS OF BIOETHANOL ON THE ENGINE PERFORMANCE AND EXHAUST EMISSIONS OF A SPARK IGNITION ENGINE
10:40 - 11:00	Coffee Break - Poster Presentations
	1) SINA AHMADIASL - DESIGN OF A PORTABLE ATMOSPHERIC WATER GENERATOR 2) CHEDRİ LOUBNA - EFFECTS OF KAOLIN PARTICLE SIZE ON THE MECHANICAL PROPERTIES OF PP / KAOLIN COMPOSITES 3) KOUDER HALİM BENRAHOU - RHEOLOGICAL APPROACH BETWEEN THE ELLIS MODEL AND THE WILLIAMSON MODEL FOR THE CASE OF A CONSTANT TEMPERATURE POLYMER SOLUTION 4) BERRAHOU GHEZLANE - ELABORATION OF A NEW INORGANIC-ORGANIC HYBRID COMPOSITE AND APPLICATION OF AN ANIONIC DYE FROM WASTEWATERS 5) DJELTI ABDELKADER - STUDY OF DELAY IN PRIMING AND PROPAGATION OF FATIGUE CRACK OF AN ALLOY AFTER DRILLING A HOLE WITH EXPANSION 6) DJELTI ABDELKADER - ANALYSIS OF THE PROPAGATION OF CRACKS IN ALUMINUM PLATE HOLES 7) DJELTI ABDELKADER - EFFECT OF THE TECHNIQUE OF GLUE REPAIR OF A CRACKED ALUMINUM SHEET 8) DJELTI ABDELKADER - ANALYSIS OF TENSILE TEST ON MILD STEEL WITH ABAQUS SOFTWARE 9) SEDRATI HICHEM - SURVEY OF THE EFFECT OF ANNEALING NUMBER OF BILAYERS AND NICKEL CONTENT ON THE TRANSMISSION OF DIP-COATED SiO2/TiO2 BRAGG REFLECTORS 10) KHICOUCHE IMENE - POLYPYRROLE ELECTROPOLYMERIZATION COATINGS ON STAINLESS STEEL FOR CORROSION 11) CHAHRA YOUNSI - REVIEW ON THE EFFECT OF THE EXPERIMENTAL SYNTHESIS PARAMETERS ON STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF ZNO NANOPARTICLES 12) SAID BOUCETTA - AB INITIO STUDY OF THE STRUCTURAL AND MECHANICAL PROPERTIES OF MG3PT INTERMETALLIC COMPOUND 13) FARES KHALFALLAH - EXPERIMENTAL STUDY AND THERMAL MODELING OF FRICTION-WELDED MILD STEEL WITH AA100 ALUMINUM ALLOY 14) ZOULKHA FANDI - PREPARATION OF AUTOCATALYSTS AND STUDY OF THEIR CATALYTIC ACTIVITY FOR THE DEGRADATION OF METHYL ORANGE 15) HADJOUB FATIHA - INVESTIGATION OF ELASTIC PARAMETERS OF ZINC OXIDE DOPED 45S5 BIOACTIVE GLASS 16) HADJOUB FATIHA - ACOUSTICAL PROPERTIES OF BULK METALLIC GLASSES WITH VARIOUS REINFORCEMENT VOLUME FRACTION 17) LAKHDARA MAYA - COMSOL MODELING OF THE EFFECT OF STI AND DTI ISOLATIONS ON THE SELF HEATING OF A HBT SIGE REALIZED IN ADVANCED TECHNOLOGY 18) LAKHDARA MAYA - IMPACT OF THE SIGE HBTS SCALING ON THEIR THERMAL AND ELECTRICAL PERFORMANCES 19) BRICK CHAOUCHE AMINE- EXPERIMENTAL STUDY OF THE SENSITIVITY OF FULL-FIELD DISPLACEMENT AND DEFORMATION NEAR A TIP OF A NOTCH TO HEAT TREATMENT IN STRUCTURAL HARDENING ALUMINUM ALLOY 2XXX SERIES 20) DJAMEL ALLALI - ELECTRONIC AND THERMOELECTRIC PROPERTIES OF THE LiCDX (X = P, AS AND SB) FILLED-TETRAHEDRAL COMPOUNDS. AN AB INITIO FP-LAPW STUDY 21) SOUMIA HAMDANI - MOLECULAR DYNAMIC SIMULATION OF NANO-INDENTATION INDUCE MECHANICAL BEHAVIOR OF NANOSCALE METALLIC SINGLE LAYER 22) ZOHEIR BOUTAGHOUI - STRUCTURE AND PROPERTIES OF W-NI COMPOSITE OBTAINED BY LOOSE POWDERS INFILTRATION PROCESS 23) NIHAD DUKHAN - SOLID CYLINDER BUNDLES MODELING OF OPEN-CELL METAL FOAM 24) BLOUL BENATTIA - MODELING OF GEOMETRIC FREE FORM SURFACE DEFECTS BY ARTIFICIAL INTELLIGENCE: APPLICATIONS TO TURBINE BLADES 25) BENDJELLOUL MERIEM - QUATERNIZED TRIETHANOLAMINE-SEBACOYL MOIETIES IN HIGHLY BRANCHED POLYMER ARCHITECTURE AS A HOST FOR THE ENTRAPMENT OF ACID DYES IN AQUEOUS SOLUTIONS 26) ILHEM HADJOUB - ELASTIC PROPERTIES STUDIES OF POLY-TYPE SiC VIA ACOUSTIC MICROSCOPY 27) KELLAI AHMED - EFFECT OF HEAT TREATMENT ON MICROSTRUCTURE, MECHANICAL PROPERTIES AND CORROSION RESISTANCE OF DUPLEX STAINLESS STEEL WELDS 28) HADJOUBA BOUZID - STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF BULK CUINO 6G40 45E2 SEMICONDUCTOR COMPOUND 29) FERKOUS KHALID - DETERMINATION OF THE OPTIMAL TILT ANGLE OF SOLAR COLLECTORS FOR DIFFERENT SITE OF ALGERIA 30) BILLEL LOUNCI - MODELING OF MANIPULATOR ROBOT FOR CUTTING STEEL PLATES APPLICATION 31) BENOSMANE SARRA - SURFACE MODIFICATION OF AGRICULTURAL WASTES FOR ENHANCED SORPTION PROPERTIES OF HEAVY METALS IONS AND DYES 32) CHOUITEK MAMA - ROBUST-FUZZY CONTROL OF THE 8/6 VARIABLE RELUCTANCE MACHINE 33) RIAD HAROUZ - THE EFFECT OF TiC ON SURFACE WEAR, FOR DIFFERENT PERCENTAGE DEPENDING TRIBOLOGICAL PARAMETERS 34) MOULOUD AISSANI - EXPERIMENTAL STUDY OF 2017A ALUMINUM ALLOY WELDED BY FSW PROCESS: THERMAL / STRUCTURAL ANALYSES OF UNDERWATER WELDING EFFECT 35) BOUSSAHA BILAL - BEHAVIOUR OF SUSPENDING COUPLED STRESS FLUIDS SQUEEZED OUT BETWEEN POROUS CIRCULAR DISCS: APPLICATION TO THE HUMAN KNEE JOINT
10:40 - 11:00	Coffee Break - Poster Presentations
	36) MALOU ZAHRA - THERMAL SHOCK BEHAVIOR OF A SANDBLASTED GLASS TREATED BY THERMOCHEMICAL METHODS 37) HADJIRA GUERBA - STUDY OF THE DISCOLORATION OF METHYLENE BLUE BY SBA-15 AND SILICA GEL 38) LINDA TOKAL - EXPERIMENTAL AND THEORETICAL STUDY OF CORROSION OF PHENYLENEDIAMINE FOR MILD STEEL IN ALGERIAN SOIL-SIMULATING SOLUTION AND SODIUM CHLORIDE SOLUTION 39) ABOU HILOU FADI - STRUCTURAL AND MECHANICAL PROPERTIES OF A231 ALLOY AFTER HOT ROLLING 40) HILAL RAHALI - SPEED CONTROL OF A DUAL STAR INDUCTION MOTOR BASED ON TYPE-2 FUZZY LOGIC SLIDING MODE CONTROLLER 41) BENTOUMI MOHAMED - MECHANICAL BEHAVIOR OF INORGANIC MATERIALS FROM A VICKERS INDENTATION TEST: APPLICATION TO THE HEAVY FLINT AND CERAMIC GLASS 42) BENTOUMI MOHAMED - STUDY OF THE MECHANICAL PROPERTIES OF POLYMER NANO COMPOSITES FROM A NANO-INDENTATION TEST 43) ABDERRHAMEN BOUGUERRA - INTERVAL TYPE 2 FUZZY GAIN-ADAPTIVE PI CONTROLLER OF BRUSHLESS DC MOTOR 44) IDRIS BOUCHAMA - EXPERIMENTAL STUDY OF QUATERNARY CUINO 7G0 3SE2 MATERIAL FOR SOLAR CELL 45) KHELLADI MALIKA - VALORIZATION OF AN ALGERIAN BENTONITE IN WASTEWATER TREATMENT 46) KHELLADI MALIKA - PHYSICO-CHEMICAL AND BACTERIOLOGICAL CHARACTERIZATION OF WASTEWATER FROM OUED AIN-SEFRA (MOSTAGANEM) 47) KETTOUM LOUKAL - FUZZY GAIN SCHEDULING PID CONTROLLER OF TWO TANK LIQUID LEVEL SYSTEM 48) KESKES BOUALEM - EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF LOW VELOCITY IMPACT ON NOMEX AND ALUMINUM SANDWICH PANELS 49) KESKES BOUALEM - FINITE ELEMENT ANALYSIS ON THE COMPRESSIVE BEHAVIOUR OF AN ALUMINUM HONEYCOMB CORE 50) KESKES BOUALEM - EXPERIMENTAL AND NUMERICAL CHARACTERIZATION OF FLEXURAL AND SHEAR BEHAVIOUR ON ALUMINUM HONEYCOMB SANDWICH: EFFECTS CORE DENSITY AND CELLS CONFIGURATION 51) HEBBAR CHAFIKA - LEGAL ASPECT OF RENEWABLE ENERGY IN ALGERIA 52) GHERNAOUTI MOHAMMED EL AMINE - SIMULATION AND OPTIMIZATION OF MANUFACTURING THERMOFORMING PARTS 53) BRACHIA LACHICHEM KHICOUCHE - IMPACT OF MAGNETIC SLOT WEDGES ON PMSM PERFORMANCES USING ANALYTICAL MODEL 54) BOUSSOUF NORA - ENHANCEMENT OF MICROSTRUCTURAL PROPERTIES IN Co-DOPED B2S2C2CaCu2Ag9.0508+- SUPERCONDUCTOR 55) BOUSSOUF NORA - EFFECT OF KMnO4 ADDITION ON Bi1 6pb0 4s2c2CaCu2O8+- SUPERCONDUCTOR 56) MESSAOUDA BELOUADAH - STUDY OF THE EFFECT OF MINERAL ADDITIONS IN THE DEVELOPMENT OF MECHANICAL PROPERTIES AND THE IMPROVEMENT OF THE RHEOLOGICAL BEHAVIOR OF CONCRETE 57) LYNDIA BOUZEROURA - THE REALITY OF RENEWABLE ENERGIES IN ALGERIA AND EMBODYING PROJECTS 58) BENAMARA FATIMA ZOHIRA - DYNAMIC STABILITY OF ANCHORED RETAINING WALLS 59) BOUFAS SIHEM - BIPHENYL-4,4'-DIAMINIUM BIS TRIFLUORODOSTANNATE (II) VS BIPHENYL-4,4'-DIAMINIUM BIS TRICHLORODICADOMATE (II) 60) BOUFAS SIHEM - ELECTROCHEMICAL STUDY OF ALUMINUM ALLOY CORROSION BY A NEW SCHIFF BASE COMPOUND IN ACIDIC SOLUTION 61) LATRECHE SAMIA - MODELING AND SIMULATION OF A LEAD-ACID BATTERY FOR SOLAR ENERGY 62) LATRECHE SAMIA - BOND GRAPH MODELING AND MONITORING OF PV INSTALLATION 63) LATRECHE SAMIA - DESIGN AND REALIZATION OF MPPT CONTROLLER OF SHADING ON PHOTOVOLTAIC MODULE 64) SOUAD BELHOUR - OPTIMAL REPARTITION OF HYBRID PV AND THERMAL SYSTEMS 65) SOUAD BELHOUR - HYBRID SYSTEMS USING WIND TURBINES AND BIODIGESTERS 66) BOUYAKOUB ISMAIL - CONTROL OF A MULTILEVEL INVERTER (TWO LEVELS IN CASCADE) BY THREE-DIMENSIONAL SVM STRATEGY 67) FARES MOHAMED LAMINE - SURFACE CHARACTERIZATION OF PACK BORONIZED HOT WORK TOOL STEEL CLOSE TO AISI H11 STEEL TYPE 68) HAMIM MOURAD - MODELLING THE FREQUENCY EFFECT ON THE HYSTERESIS DYNAMIC INVERSE JILES-ATHERTON MODEL 69) OZUNUR OZTUNA TANER - THERMAL CONDUCTIVITY OF FILMS IN FOOD INDUSTRY: A REVIEW 70) CHOUIAL BAGHDADI - OPTICAL, STRUCTURAL AND ELECTRICAL PROPERTIES OF FLUORINE AND COBALT CO-DOPED SnO2 THIN FILMS
	<b>SESSION CHAIRMAN: ORKUN ÖZENER, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
11:00 - 11:10	TUFAN GÜRKAN YILMAZ - STRESS ANALYSIS OF INTERNAL SPUR GEARS WITH ASYMMETRIC TEETH
11:10 - 11:20	TUFAN GÜRKAN YILMAZ - INTERFERENCE ANALYSIS OF SPUR GEARS WITH ASYMMETRIC TROCHOID
11:20 - 11:30	TUFAN GÜRKAN YILMAZ - AN ALTERNATIVE METHOD TO ELIMINATE UNDERCUT OF SPUR GEARS
11:30 - 11:40	DOĞUKAN TAHA TAYFUR - DYNAMICS MODELLING OF CROSS-DRIVE AUTOMATIC TRANSMISSIONS BY LAGRANGE METHOD FOR SHIFT CONTROL PURPOSES
11:40 - 11:50	ZEYNEP EKİCİOĞLU KÜZECİ - ON THE FORCED VIBRATION OF THE HYDRO-PIEZOELECTRIC SYSTEM
11:50 - 12:00	TAHİR KARASU - COMPUTER SIMULATION AND MODELLING OF TURBULENT FLOW OVER BACKWARD-FACING STEPS   COMPUTER SIMULATION AND MODELLING OF TURBULENT FLOW OVER BACKWARD-FACING STEPS
12:00 - 13:00	LUNCH
13:00 - 13:20	Poster Presentations
	1) AYACHI BILEL - TRANSIENT STABILITY ENHANCEMENT OF POWER SYSTEM BY CONTROLLING HVDC POWER FLOW 2) AYACHI BILEL - TRANSIENT STABILITY ANALYSIS OF SYNCHRONOUS GENERATOR 3) INSHAD JUMH - ELECTROCHEMICAL ANTICORROSIVE PROPERTIES OF POLYPYRROLE-METAL OXIDE NANOCOMPOSITES THIN FILMS ON INDUSTRIAL STEEL 4) BENDJABALLAH MALEK - CHARACTERIZATION OF STABLE CONCENTRATED COLLOIDAL SILICA DISPERSIONS AS NANOPARTICLES 5) BENDJABALLAH MALEK - MULTIOBJECTIVE OPTIMIZATION OF WASTEWATER TREATMENT BY ELECTRO-CHEMICAL PROCESS 6) AÏN-SOUYA AZZEDINE - ELECTRICAL AND OPTICAL PROPERTIES OF ZINC OXIDE LAYERS 7) DJILANI CHAHRAZED - APPLICATION OF ZNO NANOCOMPOSITE SUPPORTED ON ACTIVATED CARBON FOR PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE 8) DJILANI CHAHRAZED - KINETICS, MECHANISM AND ISOTHERM STUDIES OF LIQUID-PHASE ADSORPTION OF METHYLENE BLUE ON CHITOSAN/BANANA PEEL BIOCOMPOSITE 9) NACIRA HAMALOUI - NUMERICAL STUDY OF POLYETHYLENE PIPE FRACTURE TOUGHNESS 10) ED BACHIA NACER EDINE - METAL MATRIX COMPOSITE COATINGS MANUFACTURED BY THERMAL SPRAYING 11) TIBERKAK RACHID - DYNAMIC ANALYSIS OF FUNCTIONALLY GRADED PLATES USING FIRST-ORDER SHEAR DEFORMATION PLATE THEORY PART 1: MODAL ANALYSIS 12) DJIHAD NESRINE FACI - AGEING EFFECT ON THE THERMAL AND MICROSTRUCTURAL CHARACTERIZATION OF A CUZNAL SHAPE MEMORY ALLOY AT 4 % D'AL 13) FEDALA SEMCHEDINE - GEAR FAULT DIAGNOSIS BASED ON ANGULAR MEASUREMENTS AND SUPPORT VECTOR MACHINES 14) FEDALA SEMCHEDINE - GEARBOX FAULT DIAGNOSIS VIA INSTANTANEOUS ANGULAR SPEED ANALYSIS 15) FEDALA SEMCHEDINE - DETECTION AND DIAGNOSIS OF BEARING DEFECTS BY INFERRED THERMOGRAPHY 16) SAÏFI ISSAADI - EXPERIMENTAL AND QUANTUM CHEMICAL STUDIES ON CORROSION INHIBITION PERFORMANCE OF SYNTHESIZED SCHIFF BASE FOR MILD STEEL IN ACIDIC MEDIA 17) TAHAR MASRI - FLEXURAL PROPERTIES OF COMPOSITE MATERIAL BASED ON DATE PITS WASTES AND EPOXY RESIN 18) FARES ZAMOUCHE - THE ADVANTAGES DPWM OVER SPWM INVERTER TECHNIQUES FED INDUCTION MOTOR 19) FARES ZAMOUCHE - EXPERIMENTAL TESTS OF A DISCONTINUOUS PWM TECHNIQUE FOR THE CONTROL OF VSI-M DRIVE 20) FARES ZAMOUCHE - SVPM FOR THREE LEVEL NEUTRAL POINT CLAMPED FED ASYNCHRONOUS MOTOR 21) MESSAOUD FAROUK - MACHINING ACCURACY ENHANCEMENT BY GOAL PROGRAMMING METHOD AND GENETIC ALGORITHM 22) LILIA KTARI - STRUCTURE, ELECTRICAL PROPERTIES, PHASE TRANSITIONS AND CONDUCTION MECHANISMS OF A NEW RUBIDIUM THALLIUM TELLURATE PROPTONIC CONDUCTOR 23) ELHADJ OUAKDI - OPTIMIZATION OF FRICTION STIR WELDING PARAMETERS ON ALUMINUM ALLOY 24) KABADOU AHLEM - STRUCTURAL, SPECTROSCOPIC AND MAGNETIC PROPERTIES OF ER, MN-DOPED ZRTE3O8 25) FATMA ZOARI - SYNTHESIS, CRYSTAL STRUCTURE, XRD ANALYSIS, SURFACIAL AND THERMAL PROPERTIES OF A NEW COMPOUND C13H16N2S9CL5 26) FATMA BENDAHMA - STUDY OF STRUCTURAL AND ELECTRONIC PROPERTIES OF TERNARY NMIInGe HALF-HEUSLER COMPOUND 27) GUELAL MESSAOUD - STUDY OF COMBINED NATURAL CONVECTION-RADIATION WITH INTERNAL HEAT GENERATION IN ABSORBING AND EMITTING MEDIUM 28) GUELAL MESSAOUD - IMPACT OF RADIATION AND THERMAL GRADIENT ON NATURAL CONVECTION IN SQUARE CAVITY FILLED WITH GRAY GAS UNDER NON BOUSSINESQ CONDITIONS 29) MERGHACHE SIDI MOHAMMED - DISPLACEMENTS DETERMINATION OF THE MACHINE TOOL STRUCTURE HAVING THREE AXES UNDER THE CUTTING PARAMETERS - MILLING CASE - 30) MERGHACHE SIDI MOHAMMED - EVALUATION OF THE NOISE OF A TRANSMISSION BY A SYNCHRONOUS BELT OF TYPE AT10 COATED 31) BOUCERREDJ NOUREDDINE - EXPANSION AND EXPLOSION OF HEATED CLUSTERS OF Na AND KI BY INTENSE FEMTOSECOND LASER 32) MATAOUI AMINA - TURBULENT FORCED CONVECTION OF NANOFUID OVER A HEATED SHALLOW CAVITY IN A DUCT 33) MATAOUI AMINA - NUMERICAL STUDY OF WIND TURBINE MODELED BY A POROUS DISK 34) MATAOUI AMINA - MELTING AND SOLIDIFICATION PHASE CHANGE OF N-EICOSANE INSIDE SQUARE CAVITY OF TWO ORIENTATIONS 35) BAKRITI FATIMA ZOHIRA - A NUMERICAL STUDY OF MIXED CONVECTION IN ELLIPTICAL PIN FIN HEAT SINK 36) TOUHAMI MOUFIDA - DEVELOPMENT OF QSAR MODELS FOR PREDICTING ANTI-HIV ACTIVITY OF HEPT DERIVATIVES
13:00 - 13:20	Poster Presentations
	37) NIMA MIRZAEI - MICROSTRUCTURAL CHARACTERIZATION AND MECHANICAL AND ELECTROCHEMICAL PROPERTIES OF AL-NI ALLOYS 38) GÜNAY BAYDAR ATAK - A GENERAL OVERVIEW: PRODUCTION OF PLATELETS IN A MICROCHANNEL 39) BUKET BILGIÇ - THEORETICAL INVESTIGATION OF FREEZE-DRYING 40) ILHEM DJAGHOUD - ELECTRO CO-DEPOSITION AND PROPERTIES OF A2O3 IN NICKEL METAL MATRIX COMPOSITE COATINGS 41) BELKACEM BELKACEM - CONTRIBUTION OF MATRIX CONVERTERS ON THE ENERGY QUALITY OF A DFIG 42) MERT AKIN INSEL - COST ANALYSIS OF RENEWABLE ENERGY TECHNOLOGIES 43) ERGÜN UMITCAN GÜVENİR - NEW LOADCELL DATA CALCULATION PHENOMENA TO BE USED IN MASS AND CENTER OF MASS MEASUREMENT SYSTEM FOR CYLINDRICAL GEOMETRIES 44) ENES GÜRLER - COMPACT AND HIGH RESOLUTION SHAFT ENCODER DESIGN AND APPLICATION FOR ROTATING SYSTEMS 45) HAFİZE ÇELİK - A PLASTIC DOOR CARRIER MODULE DEVELOPMENT 46) HAFİZE ÇELİK - THE USAGE OF THIRD GENERATION STEELS ON VEHICLE BODY 47) HAFİZİTTİN HAKAN YUDAR - SPECIAL BENDING SYSTEM DESIGN FOR ANTI ROLL BAR OF HEAVY VEHICLE 48) HAFİZİTTİN HAKAN YUDAR - THE COST-EFFECTIVE DESIGN OF THE ANTI-ROLL BAR LINK AREA FOR MASS PRODUCTION 49) MUHAMMET ALI USTAŞAHİN - SHEET METAL COATING MACHINE AUTOMATION 50) CHIKI-BLED HICHAM - STUDY AND MODELING OF LONG PERIOD GRATING IN FIBER OPTIC: CHANGE OF AMBIENT REFRACTIVE INDEX 51) MEHMET GÜRER - BRAKING PERFORMANCE OF THE PLASMA SPRAY CERAMIC COATED BRAKE DISCS 52) YUSUF BURAK BOZKURT - COMPARISON OF ELECTROCHEMICAL CORROSION BEHAVIOUR OF Ti6Al4V PRODUCED BY SELECTIVE LASER MELTING AND FORGING 53) KHALDI HAFSA - HETEROCYCLIC SYNTHESIS OF ARYLDENES THIAZOLBENZIMIDAZOLE 54) MEBTOUCHE AHMED - CHARACTERIZATION OF THE INTERFACE OF A NON-FERROUS DISSIMILAR REALIZED BY ROTARY FRICTION WELDING 55) FERHAT HAMIDA ABDELHAK - ANALYSIS AND EVALUATION OF THE ODMA SYSTEM PERFORMANCE THROUGH USING THREE DIMENSIONAL (3D) CODE 56) FERHAT HAMIDA ABDELHAK - COMSOL MODELISATION OF C-Si/Si HETEROJUNCTION SOLAR CELLS 57) BOUMAZA AKILA - FP-LAPW METHODOLOGY BASED THEORETICAL INVESTIGATION OF STRUCTURAL, ELECTRONIC AND OPTICAL PROPERTIES OF ZINC BLEND Zn1-xBexSe1-y QUATERNARY ALLOYS 58) RHAD ALLOUNE - TRANSFERIFICATION AND PERFORMANCE CHARACTERISTICS FROM ESTER METHYL OF WASTE COOKING OIL IN DIESEL ENGINE 59) OTHMANI BOUBAKER - RELATIONSHIP BETWEEN THE PENETRATION DEPTH OF THE CURRENT AND ITS FREQUENCY 60) OTHMANI BOUBAKER - SUPERFICIAL HARDENING WITH STEEL HEATING IN AN ELECTROLYTE 61) OTHMANI BOUBAKER - INFLUENCE OF SOME OF THE MECHANICAL-THERMAL PROPERTIES ON THE DURATION OF THE COATING IN VARIOUS ELECTROLYSIS OF IRON CHLORIDE 62) MOHAMADI SADDIKA - STUDY OF THE STABILITY OF THE VENTILATION SHAFT N°4 OF ALGIERS METRO PROJECT - EXTENSION: EL HARRACH CENTER - ALGIERS INTERNATIONAL AIRPORT 63) BAL TACH ABDELGHANI - NUMERICAL ANALYSIS OF THE EFFECT OF THE MECHANICAL PROPERTIES ON WELDED JOINTS IN THE FRACTURE MECHANICS 64) SOUALMA ABDELKADER - EFFECT OF COMPRESSION RING PROFILE ON LUBRICATION CONTACT PISTON-RING-SHIRT 65) BOUTARFA BARIZA - STRUCTURAL ELASTIC AND ELECTRONIC PROPERTIES OF AXAXES AND THE PHYSICAL ORIGIN OF THE GAP BOWING IN THESE ALLOYS 66) EZZRAMI MADJID - ACTIVE VIBRATION CONTROL OF COMPOSITE PLATE WITH BONDED PIEZOELECTRIC ELEMENTS 67) ISMAIL GHADBANE - POWER QUALITY IMPROVEMENT BASED ON SEVEN-LEVEL PUC SERIES ACTIVE POWER FILTER
	<b>SESSION CHAIRMAN: ALPER UYSAL, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
13:20 - 13:30	HİLAL EYİNÇ - ENVIROECONOMIC ANALYSIS PHOTOVOLTAIC THERMAL SYSTEM USING NANOPARTICLE IN PHASE CHANGE MATERIAL
13:30 - 13:40	MUHAMMED ÇAVUŞOĞLU - COMPARISON OF DC-DC CONVERTERS FOR THE AVALANCHE PHOTODIODE (APD)
13:40 - 13:50	ZAFER GÜLER - DESIGN AND DEVELOPMENT OF A SINGLE SHELL CONTROL ARM FOR MC PHERSON STRUT TYPE SUSPENSION
13:50 - 14:00	SERAY AKSOY - ANALYSIS OF SEAT FUNCTIONS IN LIGHT COMMERCIAL VEHICLES BY KANO METHOD
14:00 - 14:10	ZEYNEP EŞMEN - PROTECTIVE UPHOLSTERY ANALYSIS IN LIGHT COMMERCIAL VEHICLES WITH QUALITY FUNCTION DEPLOYMENT METHOD
14:10 - 14:20	SAMED ERBİL - CHANGE OF MECHANICAL PROPERTIES OF DUAL PHASE STEELS AFTER WELDING OPERATION IN AUTOMOTIVE SEAT STRUCTURES
14:20 - 14:30	GÜVEN ÖZÇELİK - INVESTIGATION OF CONDENSATION CHARACTERISTICS FOR INCLINED PIPES ON RECENT LITERATURE
14:30 - 14:40	HİLAL EYİNÇ - INVESTIGATION OF SURFACE CHARACTERIZATION OF POLYCRYSTALLINE AND MONOCRYSTALLINE SOLAR CELLS
14:40 - 14:50	ABID USTAĞLU - IMPROVEMENT POTENTIAL EVALUATION OF A VAPOR COMPRESSION CASCADE REFRIGERATION CYCLE BY USING ADVANCED EXERGY METHOD
14:50 - 15:00	EROL ÇİFCİ - VEHICLE DYNAMICS MODELING AND VERIFICATION WITH TEST OF ARTICULATED BUS

15:00 - 15:20 Coffee Break - Poster Presentations	<p>1) ABDERRAZAK ALLALI - EXPERIMENTAL MECHANICAL CHARACTERIZATIONS OF FRICTION WELDING JOINTS (STEEL AND ALUMINIUM METALS)</p> <p>2) ABDERRAZAK ALLALI - INFLUENCE OF THE TEMPERATURE AND THE CONCENTRATION OF THE METHANOL ON A DIRECT METHANOL FUEL CELL</p> <p>3) ABDERRAZAK ALLALI - SYNTHESIS OF AN AUTOMATIC PRODUCTION LINE</p> <p>4) MOUHOUBI SABIRA - FRACTURE OF JUTE/POLYESTER LAMINATES</p> <p>5) MOUHOUBI SABIRA - IMPACT OF MANUFACTURING PROCESS ON THE MECHANICAL PROPERTIES OF FIBROUS REINFORCEMENT COMPOSITE</p> <p>6) ESHREB DZHEMILOV - RESEARCH OF TREATMENT PROCESS OF CONICAL HOLES BY DIAMOND HONING</p> <p>7) MEZACHE ZINELABIDINE - ANALYSIS OF FRACTAL GRAPHENE ANTENNA FOR TERAHERTZ REGION</p> <p>8) MEZACHE ZINELABIDINE - STUDY OF VARIOUS DESIGNS FOR FRACTAL ANTENNAS</p> <p>9) MEZACHE ZINELABIDINE - STUDY OF A NOVEL BIOSENSOR FOR CANCER CELL DETECTION BASED ON FRACTAL RESONATOR</p> <p>10) RADHIA DHAHRI - MAGNETOCALORIC EFFECT OF THE POLYCRYSTALLINE MANGANITE FOR APPLICATION</p> <p>11) MEDKOUR MIHOUB - INFLUENCE OF THE TEMPERATURE AND THE CONCENTRATION OF THE METHANOL ON A DIRECT METHANOL FUEL CELL</p> <p>12) BOUFATAH MOHAMMED REDA - THERMOELECTRIC PROPERTIES OF CUAN2 (A = V, NB, TA) NITRIDE DELAFOSSITE</p> <p>13) RAOUACHE ELHADJ - MECHANICAL CHARACTERIZATION AND THERMAL ANALYSIS OF FRICTION WELDED COPPER/ALUMINIUM DISSIMILAR JOINTS</p> <p>14) NAZHA BENZANNACHE - TENSILE MECHANICAL BEHAVIOR OF TROPICAL PALM FIBER: STATISTICAL STUDY</p> <p>15) CHAGUETMI SALEM - PHYSICAL PROPERTIES OF TERNARY NAPO3-KHSO4-M2O5 (M=V, NB AND TA) GLASSES</p> <p>16) SEYED KAMAL JALALI - MOLECULAR DYNAMIC BASED FREE VIBRATIONAL ANALYSIS OF CIRCULAR SINGLE LAYERED GRAPHENE SHEETS</p> <p>17) CHEGAAR MOHAMED - AN OVERVIEW OF SOLAR CELLS PARAMETERS EXTRACTION METHODS</p> <p>18) CHEGAAR MOHAMED - ASSESSMENT OF GLOBAL SOLAR RADIATION USING METEOROLOGICAL PARAMETERS</p> <p>19) GUECHI FROUZ - THE HODOGRAPH TRANSFORMATION AND ITS APPLICATION IN MECHANICS</p> <p>20) ABDELKRIM RECHACH - NEUTRAL POINT CLAMPED AND CASCADED H-BRIDGE MULTILEVEL INVERTERS FOR PV SYSTEMS</p> <p>21) BOUCHAKRI NAIMA - THEORETICAL STUDY OF THE FORMATION OF ORGANOMETALLIC COMPLEXES</p> <p>22) SAID ALEM - FAULT DETECTION AND ESTIMATION USING STRUCTURAL ANALYSIS BASED ON BIPARTITE GRAPHS APPLIED TO A DC-MOTOR</p> <p>23) ASTRIT SALLAJKA - KOSOVO REGIONAL ROAD NETWORK ANALYSIS USING MINIMUM SPANNING TREE AND GENETIC ALGORITHM</p> <p>24) FAYCAL OUMELAZ - FIRST PRINCIPLE STUDY OF THE STRUCTURAL AND ELECTRONIC PROPERTIES OF AL1XGA(1-X)PY5B1-Y QUATERNARY ALLOYS</p> <p>25) NEMRI QUADA - THEORETICAL STUDY OF THE STRUCTURAL PHASE STABILITY AND ELECTRONIC PROPERTIES OF GAAS1-XBX TERNARY ALLOYS</p> <p>26) NASREDDINE LAHOUSNIA - DETECTION AND DIAGNOSIS OF ROTOR RELATED FAULTS IN THREE-PHASE ASYNCHRONOUS MOTOR</p> <p>27) NASREDDINE LAHOUSNIA - EXPLOITATION OF ELECTRICAL SIGNALS FOR THE DIAGNOSIS OF BEARING DEFECTS IN ELECTROMECHANICAL MACHINES</p> <p>28) MOUMENI OUAHIBA - SYNTHESIS AND CHARACTERIZATION OF AN ORGANOPHOSPHORUS COMPOUND: BIOLOGICAL APPLICATION</p> <p>29) DJAMA MUSTAPHA - INFLUENCE OF AA2214 MICROSTRUCTURE ON THE MORPHOLOGIES AND ELECTROCHEMICAL PROPERTIES OF ANODIC ALUMINA OXIDE (AAO) FILMS</p> <p>30) DJAMA MUSTAPHA - AGING BEHAVIOR AND RESTORATION BY HEAT TREATMENTS OF Z205 DUPLEX STAINLESS STEEL</p> <p>31) KOLLI MOSTAFA - EFFECT OF PEG/PIVA ORGANIC ADDITION ON THE PROPERTIES OF SINTERED ALUMINA</p> <p>32) ACHOUR TOUFIK - EFFECT OF THE ADHESIVE LAYER ON THE MECHANICAL BEHAVIOR OF DAMAGED AND REINFORCED STRUCTURES BY AN OVERLAP COMPOSITE PATCH</p> <p>33) FAHIMA LAYACHI - STRUCTURE AND PROPERTIES OF AL-50%NB ALLOY ELABORATED BY HIGH FREQUENCY MAGNETIC FUSION HF</p> <p>34) FADILA BEMMEDOUR - SPECTRAL DOMAIN ANALYSIS OF CIRCULAR PRINTED ANTENNA ON UNIAXIALLY ANISOTROPIC SUBSTRATE</p> <p>35) MOHAMMED CHAISE EDDINE OUDAH - CIRCULAR PHOTONIC CRYSTAL FIBER USED FOR DISPERSION COMPENSATION IN S+C-L-U BANDS</p>
15:00 - 15:20 Coffee Break - Poster Presentations	<p>36) BELMADANI BACHIR - HARMONIC FILTER IN ITS EXPERIMENTAL ENVIRONMENT</p> <p>37) MADANI MALIKA - RELAXATION TIME OF THE MAGNETIZATION OF ANTIFERROMAGNETIC NANOPARTICLES EFFET OF THE DC MAGNETIC FIELD</p> <p>38) MADANI MALIKA - MECHANICAL CHARACTERIZATION OF AISI BY SHOT PEENING PROCESSES</p> <p>39) MADANI MALIKA - STUDY OF THERMO-AGEING OF ETHYLENE/POLYPROPYLENE FILM</p> <p>40) HAFIZE CELIK - DEVELOPMENT OF A VEHICLE PLASTIC ENGINE UNDER COVER BY MICROCELLULAR INJECTION MOLDING</p> <p>41) HAFIZE CELIK - DEVELOPMENT OF A CONTINUOUS FIBER THERMOPLASTIC COMPOSITE BATTERY CARRIER BY USING OVER-MOLDING PRODUCTION TECHNOLOGY</p> <p>42) HAFIZE CELIK - DESIGN AND PROCESS DEVELOPMENT FOR LIGHTENING OF REAR PART IN PASSENGER VEHICLES USING GLASS-MAT THERMOPLASTIC COMPOSITES INSTEAD OF METAL</p> <p>43) LASLADI MERYEM - EFFECT OF THE TEMPERATURE ON THE ELECTRICAL PROPERTIES OF CUINO 8GA0.252 THIN FILMS</p> <p>44) AMEL MOHAMED BEN ALI - EFFECTS OF FILLER CONTENTS ON THE PHYSICOMECHANICAL AND THERMAL PROPERTIES OF HDPE/ DATE STONES COMPOSITES</p> <p>45) KEROUR SAFIA - TEMPERATURE DEPENDENCE OF THE ELECTRICAL PROPERTIES OF CZTSE SINGLE CRYSTAL GROWING BY MELTING METHOD FOR PHOTOVOLTAIC APPLICATIONS</p> <p>46) TEZER KARAYOL - EDM BASED HYBRID MANUFACTURING PROCESS</p>
<b>SESSION CHAIRMAN: BİNNUR SAĞBAŞ, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>	
15:20 - 15:30	ÖZGÜR İPEK - MODELING AND INTEGRATION A PATH FOLLOWING SYSTEM FOR A PASSENGER BUS
15:30 - 15:40	NURULLAH KAYACI - AIR DEMAND AND SMOKE CONTROLS FOR VENTILATION OF A ROAD TUNNEL
15:40 - 15:50	NURULLAH KAYACI -CFD SIMULATION FOR WIND COMFORT AND SAFETY IN TRANSITION ZONES : A CASE STUDY
16:00 - 16:10	EMRE ALPMAN - MARINE PROPELLER DESIGN INCLUDING CAVITATION EFFECTS
16:10 - 16:20	REYHAN ARSLAN - A REVIEW ON NANOFLOUIDS; VISCOSITY AND DENSITY EFFECTS ON THERMAL APPLICATIONS
16:20 - 16:30	GONCA GÖRMEZ - REVIEW ON THE MANAGEMENT OF RCCI ENGINES
<b>SESSION CHAIRMAN: TOLGA TANER, AKSARAY UNIVERSITY, TURKEY</b>	
16:30 - 16:40	HAYDAR BOYALI - LITERATURE REVIEW ON THE STORAGE AND USAGE OF SOLAR HEAT IN GROUND-SOURCE HEAT PUMP SYSTEMS
16:40 - 16:50	YEŞİM SEÇER - THE EFFECT OF DIFFERENT TEXTURE DENSITY AND PLASMA OXIDATION ON TRIBOLOGICAL AND MECHANICAL PROPERTIES OF 316L FABRICATED BY SELECTIVE LASER MELTING
16:50 - 17:00	SEVGİ POLAT - A TG/MS STUDY ON PYROLYSIS BEHAVIOR AND KINETICS ASSESSMENT OF WALNUT SHELL
17:00 - 17:10	HİLAL ÇALIK ÖZDEMİR - ENERGY PERFORMANCE CONTRIBUTION OF THE APPLICATION OF PHASE CHANGE MATERIALS TO BUILDING WALLS
17:10 - 17:20	ORHUN GEDİK - VEHICLE INTERIOR TRIM NOISE VIBRATION AND HARSHNESS PART WEIGHT OPTIMIZATION WITH ALTERNATIVE MATERIAL
17:20 - 17:30	SELİM GÜRGEN - TESTING PROCEDURE OF SPALL LINER IN ARMORED VEHICLES
17:30 - 17:40	SELİM GÜRGEN - FRICTIONAL PROPERTIES OF CARBON FIBER REINFORCED UHMWPE COMPOSITES
17:40 - 17:50	SELİM GÜRGEN - MODELING OF STF IMPREGNATED TEXTILES IN YARN PULL-OUT TESTING
17:50 - 18:00	HATİCE MERCAN - EXPERIMENTAL INVESTIGATION OF TUNED LIUID DAMPERS
18:00 - 18:10	VOLKAN NALÇACIOĞLU - ALUMINUM SUSPENSION BRACKET FATIGUE LIFE PREDICTION FOR LIGHTWEIGHT VEHICLES
18:10 - 18:20	HAMED ALIMORADİYAN, AHMAD HAJINEZHAD - ENERGY AND EXERGY ANALYSIS OF RANQUE-HILSCH VORTEX TUBE SYSTEM AND AIR-CYCLE SYSTEM FOR REFRIGERATION APPLICATION: A COMPARATIVE STUDY
18:20 - 18:30	MUAMMER ÖZCAN - A NUMERICAL INVESTIGATION OF DIESEL PARTICULATE FILTER OPERATION TEMPERATURE
18:30 - 18:40	MUAMMER ÖZCAN - A NUMERICAL INVESTIGATION OF ENGINE PERFORMANCE WITH ARTIFICIAL NEURAL NETWORKS
18:40 - 18:50	HASAN KÖTEN - PERFORMANCE ANALYSIS OF INDIRECT DIESEL INJECTION COMBUSTION (IDI) FOR HEAVY-DUTY V16 DIESEL ENGINE BY NUMERICAL SIMULATION
18:50 - 19:00	HASAN KÖTEN - VEHICLE PARKING SENSOR SYSTEM DESIGN AND ENVIRONMENTAL EFFECT ANALYSIS IN TERMS OF ENERGY EFFICIENCY
19:00 - 19:10	HASAN KÖTEN - EFFECTS OF THE INTAKE MANIFOLD DESIGN AND DISCHARGE COEFFICIENTS FOR THE IN-CYLINDER FLOW STRUCTURE AND ENGINE PERFORMANCES
19:10 - 19:20	HASAN KÖTEN - EXPERIMENTAL INVESTIGATION FOR THE DECISIVE ROLE OF VEHICLES IN THE AIR POLLUTION OF ARAK CITY IN IRAN AND PRESENTING THE RELATED SOLUTIONS TO REDUCE THE AIR POLLUTION
19:20 - 19:30	HASAN KÖTEN - MULTI-OBJECTIVE OPTIMIZATION OF COMFORT-COST FOR COOLING AND HEATING SYSTEMS AT THE FACULTY OF ENGINEERING OF ARAK UNIVERSITY
19:30 - 19:40	HASAN KÖTEN - NUMERICAL STUDY OF FLOW FIELD IN NEW DESIGN DYNAMIC CYCLONE SEPARATORS
19:40 - 19:50	HASAN KÖTEN - INFLUENCE OF THE CHOICE OF ORGANIC FLUID ON THE PERFORMANCES OF AN ORGANIC RANKINE CYCLE

## YILDIZ TECHNICAL UNIVERSITY BEŞİKTAŞ CAMPUS - 19 DECEMBER 2019

## HALL C

08:00 - 08:20	REGISTRATION AND COFFEE BREAK
	<b>SESSION CHAIRMAN: LEVENT YÜKSEK, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
08:20 - 08:30	DİLEK SELVİ GÖKKAYA - HYDROTHERMAL GASIFICATION OF WINE GRAPE RESIDUES WITH MINERAL CATALYST
08:30 - 08:40	YUSUF BURAK BOZKURT - THE INFLUENCE OF DIFFERENT SURFACE TREATMENT ON THE BEHAVIOUR OF FATIGUE CRACK GROWTH OF AISI 4140 UNDER TWO-STAGE BLOCK LOADING
08:40 - 08:50	SİNAN ERDOĞAN - PERFORMANCE AND EMISSION ANALYSIS OF A DIESEL GENERATOR FUELLED WITH PYROLYTIC FUEL RECYCLED FROM WASTE PLASTICS
08:50 - 09:00	BAKİ ÖZTÜRK - ANALYSIS OF NANOBEAM VIBRATION USING HOMOTOPY PERTURBATION METHOD
09:00 - 09:10	BAKİ ÖZTÜRK - STABILITY OF NANOBEAMS VIA HOMOTOPY PERTURBATION METHOD
09:10 - 09:20	BAKİ ÖZTÜRK - ANALYSIS OF LONGITUDINAL VIBRATION OF NANORODS VIA HOMOTOPY PERTURBATION METHOD
09:20 - 09:30	IDRISS DAGAL - LEAD ACID BATTERY MODELS AND CURVES CHARACTERISTICS IN DIFFERENT CHARGE AND DISCHARGE STATES WITH VARYING CURRENTS FOR PHOTOVOLTAIC SYSTEM APPLICATIONS
09:30 - 09:40	IDRISS DAGAL - BATTERIES CHARGING TYPES AND THEIR APPLICATIONS
09:40 - 09:50	MEHMET İŞCAN - MODIFIED BETA TYPE STIRLING MOTOR CONTROL BASED ON LYAPUNOV THEORY
09:50 - 10:00	MEHMET İŞCAN - MODELLING AND CONTROL OF HIGH PRECISION POSITIONING SYSTEM WITH ELECTROMAGNETIC ACTUATOR
10:00 - 10:10	AZMİ SEYHUN KIPÇAK - MATHEMATICAL MODELLING OF LOLIGO VULGARIS DRIED BY MICROWAVE OVEN
10:10 - 10:20	AZMİ SEYHUN KIPÇAK - MODELLING OF THE OCTOPUS VULGARIS DRIED BY MICROWAVE METHOD
10:20 - 10:30	AZMİ SEYHUN KIPÇAK - REHYDRATION CHARACTERISTIC OF INFRARED DRIED BLUE MUSSEL
10:30 - 10:40	BURHANETTİN ÇETİN - THERMO-ECONOMIC ANALYSIS OF A SIMPLE BRAYTON CYCLE UNDER DIFFERENT GAS TURBINE INLET TEMPERATURE
10:40 - 11:00	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: HAKAN YAZICI, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
11:00 - 11:10	KAAN GÖLÇEK - INVESTIGATION OF WAVE BASIN DESIGN PARAMETERS AND PRODUCTION OF WAVE-MAKER
11:10 - 11:20	SEÇKİN BURAK KURT - NUMERICAL MODELLING OF GASOLINE SPRAY INJECTION IN A CONSTANT VOLUME
11:20 - 11:30	FATMAGÜL TOLUN - RECENT ADVANCES IN WELDING TECHNOLOGY IN AUTOMOTIVE INDUSTRY
11:30 - 11:40	SERGEN TÜMSE - THE IMPACT OF THE GROUND ON THE VELOCITY FLUCTUATIONS AND LEADING-EDGE VORTICES ON A 40° SWEEPED DELTA WING
11:40 - 11:50	SELDA YILDIRIM - EVALUATION OF AIR-COOLED CHILLER SELECTION BY USING MULTI-CRITERIA DECISION MAKING METHOD
11:50 - 12:00	İBRAHİM ATEŞ - AN EXPERIMENTAL STUDY ON HEAT TRANSFER AUGMENTATION WITH POROUS ELEMENTS INSERTED IN A RECTANGULAR DUCT
12:00 - 13:00	LUNCH
13:00 - 13:20	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: ÖZGEN AÇIKGÖZ, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
13:20 - 13:30	HÜSEYİN LEKESİZ - MECHANICAL CHARACTERIZATION OF PLA/FLAX AND PLA/JUTE BIOCOSMOSITES AND COMPARISON WITH PP BASED COMPOSITES
13:30 - 13:40	HÜSEYİN LEKESİZ - FINITE ELEMENT ANALYSIS OF A GLOVEBOX COMPARTMENT MADE OF PLA BASED BIOCOSMOSITES AND COMPARISON WITH THAT MADE OF PP BASED COMPOSITES
13:40 - 13:50	ILKNUR KUCUK - DRYING KINETICS OF PEAR SLICES IN A CABINET DRYER
13:50 - 14:00	NAZLI GOKER - DIGITAL SUPPLY CHAIN AGILITY ANALYSIS USING IF TOPSIS METHOD
14:00 - 14:10	NAZLI GOKER - FUZZY COGNITIVE MAP METHODOLOGY FOR EVALUATING MATERIAL SELECTION CRITERIA
14:10 - 14:20	NEBAHAT KÜTÜK-SÜER - TRANSPORT PROPERTIES OF AQUEOUS PYRAZINIUM-BASED PROTIC IONIC LIQUIDS MIXTURES AS PROTON CONDUCTIVITY PROMOTER FOR FUEL CELL'S PEMFC MEMBRANES
14:20 - 14:30	ZELİHA ÖNAL - MULTIOBJECTIVE FLEXIBLE JOB-SHOP SCHEDULING WITH GENETIC ALGORITHM
14:30 - 14:40	GÖKHAN ALDEMİR - A LITERATURE REVIEW ON URBAN PUBLIC TRANSPORTATION
14:40 - 14:50	ARMAĞAN TETİK - BRIEF REVIEW OF ECM BASED HYBRID MANUFACTURING PROCESSES
14:50 - 15:00	EMRE GUNGOR - IMPROVING THE RF PERFORMANCE OF CERAMICS USING LASER ASSISTED MACHINING
15:00 - 15:20	POSTER PRESENTATIONS - HALL B - COFFEE BREAK
	<b>SESSION CHAIRMAN: ŞÜKRAN ŞEKER, YILDIZ TECHNICAL UNIVERSITY, TURKEY</b>
15:20 - 15:30	ALPER UYSAL - CUTTING AND THRUST FORCES IN ORTHOGONAL TURNING OF Ti6Al4V UNDER VARIOUS CUTTING ENVIRONMENTS
15:30 - 15:40	ALPER UYSAL - DELAMINATION FACTORS IN DRILLING OF SMALL HOLES ON GFRP COMPOSITE PRODUCED BY ADDITIVE MANUFACTURING METHOD
15:40 - 15:50	MİNE USLU UYSAL - THE STRESS BEHAVIOURS OF FUNCTIONAL GRADED POLIMERIC MATERIALS (FGPMS) SINGLE LAP JOINTS SUBJECTED TO TENSILE LOAD AND MOMENT
15:50 - 16:00	ÖMER ALP ATICI - MODELLING OF ICE CREAM FREEZING TIME WITH FINITE DIFFERENCE METHODS
16:00 - 16:10	ÜMİT İŞKAN - IN MOBILE AIR CONDITIONING SYSTEM R32 / R1234YF MIXTURE OF DIFFERENT RATES OF USE EVALUATION OF THE IMPACT ON THE PERFORMANCE OF THE SYSTEM
16:10 - 16:20	SADIK ATA - DETERMINATION OF THE EFFECT OF WET FLUID USE ON SYSTEM PERFORMANCE IN ORGANIC RANKINE CYCLE APPLIED IN GEOTHERMAL POWER PLANTS
16:20 - 16:30	SAOUDI KAMEL - ADAPTIVE FUZZY POWER SYSTEM CONTROLLER DESIGN BASED ON H-INFINITY TECHNIQUE
	<b>SESSION CHAIRMAN: NURULLAH KAYACI, NAMIK KEMAL UNIVERSITY, TURKEY</b>
16:30 - 16:40	OSMAN ISMAIL - EFFECT OF PRE-TREATMENT ON DRYING KINETICS OF BEEF MEAT
16:40 - 16:50	OSMAN ISMAIL - SYNTHESIS, ADSORPTION AND ADSORPTION OF SODIUM ACRYLATE AND ALGINATE BASED ACRYLAMIDE HYDROGELS
16:50 - 17:00	FURKAN KARTAL - INVESTIGATION OF ÇAN COAL GASIFICATION UNDER CO2 ATMOSPHERE BY USING ASPEN PLUS
17:00 - 17:10	SENEM SEZER - MODELLING AND ANALYSIS OF İMBAT COAL STEAM GASIFICATION IN BUBBLING FLUIDIZED BED GASIFIER
17:10 - 17:20	MEHMET AYDEMİR - THERMAL BEHAVIOUR AND KINETICS OF WHEAT STRAW DURING OXY-COMBUSTION
17:20 - 17:30	MEHMET AYDEMİR - INVESTIGATION OF OIL SLUDGE GASIFICATION
17:30 - 17:40	OSMAN YAZICIOĞLU - RISK ASSESSMENT AND MITIGATION FOR UNMANNED AERIAL VEHICLES
17:40 - 17:50	TOLGA TANER - PRODUCTION OF CARBON FIBERS AND PAPER FROM VEGETABLE FIBERS FOR USING FUEL CELLS
17:50 - 18:00	TOLGA TANER - INVESTIGATION OF A BORON ADDITIVE EFFECTIVE ON LUBRICATING OIL IN INTERNAL COMBUSTION ENGINE USING GASOLINE
18:00 - 18:10	TOLGA TANER - COMPARISON OF COMMERCIAL DESIGN WITH INNOVATIVE DESIGN PEM FUEL CELLS
18:10 - 18:20	TANER COŞGUN - URANS SIMULATIONS OF FREE SURFACE PIERCING NACA 0024 HYDROFOIL
18:20 - 18:30	MUHAMMET ÇAMCI - A SHORT REVIEW OF INTERNAL MIXED CONVECTIVE HEAT TRANSFER AT BUILDING APPLICATIONS
18:30 - 18:40	DOĞAN AKGÜL - BRIEF LITERATURE REVIEW ON THE SINGLE-PHASE HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS
18:40 - 18:50	ŞAFAK METİN KIRKAR - BRIEF LITERATURE REVIEW ON THE FLOW BOILING HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS
18:50 - 19:00	BÜŞRA SELENAY ÖNAL - BRIEF LITERATURE REVIEW ON THE CONDENSATION HEAT TRANSFER CHARACTERISTICS OF HELICAL COILS
19:00 - 19:10	ÇAĞATAY TEKE - EFFECT OF INTERVAL CENSORED DATA ON ESTIMATION OF FAILURE TIME AND AN APPLICATION
19:10 - 19:20	ÇAĞATAY TEKE - CLASSIFICATION OF FAILURES IN PRODUCTION LINE BY ABC ANALYSIS
19:20 - 19:30	MUHAMMET GUL - A BAYESIAN NETWORK-BASED APPROACH FOR FAILURE ANALYSIS IN WEAPON INDUSTRY
19:30 - 19:40	EMRE MANDEV - EXPERIMENTAL INVESTIGATION OF THE EFFECT OF CHANNEL HEIGHT ON FLOW BOILING CHARACTERISTICS IN MICROCHANNELS
19:40 - 19:50	NAİME FİLİZ ÖZDİL - INVESTIGATION OF BIOGAS POTENTIAL FROM ANIMAL WASTES FOR İZMİR, TURKEY
19:50 - 20:00	NAİME FİLİZ ÖZDİL - INVESTIGATION OF BIOGAS POTENTIAL FROM ANIMAL WASTES IN KAYSERİ'S DISTRICTS