

updated July 27, 2005

ICCE-12 FINAL TIMETABLE

August 1-6, 2005 Tenerife, Canary Islands, Spain

Monday **KEYNOTE LECTURES** 8:00AM-10:00AM Room Nivaria

"Metals With a Structural Scale from the Micrometre to the Nanometre Dimension" Niels HANSEN (Riso Nat. Lab., Roskilde, Denmark)

"Electrochemical Photo-Electric Conversion by Use of Nano-Materials" Shuji HAYASE (Kyushu I.T., Japan)

"Nanoscale Control of Structures for Nano-Bio Applications" Sungho JIN (UC San Diego, Calif.)

Monday 10:00AM-10:30AM coffee break

Monday 10:30AM-12:50AM Room Nivaria

Session 1a NANO 1

Chairs: K.E. Geckeler, A. Aloufy, M. Tanemura, N. Watanabe

"Novel Supramolecular Nanomaterials: from Design to Reality" Kurt E. GECKELER (Gwangju Inst.Sci.Tech., Korea) DISTINGUISHED Lecture, 40 min

"Carbon Nanotubes Reinforced PEDT Polymer Nanocomposite Yarns" Affaf ALOUFY (Alexandria U., Egypt), Y.Gogotsi, Frank Ko (Drexel U., PA) chair

"Low-Temperature Fabrication and Applications of Zinc Oxide Nanoneedles on Plastic Substrates" Masaki TANEMURA, J. Tanaka, H. Hatano, M. Kudo, T. Okita, H. Yang, S. P. Lau, S. F. Yu, L. Huang, L. Miao, S. Tanemura (Nagoya I.T., Japan)

"Synthesis of Nano Hybrid Materials, FePt / Polyimide and Pd/ SiO₂ / Polyimide" Naoshi WATANABE, K. Okabayashi, K. Nagai, H. Minai, M. Yoshino, M. Morinaga, Y. Murata (Nagoya U., Japan), T. Takeichi, A. Matsumoto (Toyohashi U.T., Japan), T. Koyama (Nat.Inst.Mat.Sci., Ibaraki, Japan)

"Strengthening and Toughening of C-ZrO₂/TiO₂ Nano Composite Used as an Electrolyte for Solid Oxide Fuel Cell" Suleyman TEKELI, Ahmet Gural (Gazi U., Turkey)

"Diclofenac Loaded Nanomats" Nureddin Ashammakhi (Tampere U.T., Finland), Anna Maria Piras, Federica Chiellini (U. Pisa, Italy), Lila Nikkola, Hanna YLIKAUPPILA (Tampere U.T.) SPECIAL POSTER

Monday 10:30AM-12:50AM Room Plataneras

Session 1b MATH 1

Chairs: S.N. Wosu, M. Matter, M.J. Clifford, E. Mahdi

"Finite Element Modeling of Split Hopkinson Pressure Bar Perforation of Graphite-Epoxy Composite Materials" Sylvanus N. WOSU (U. Pittsburgh, PA), Leo Daniel (U. New Orleans), Z. Yang, F. Ojo (U. Pittsburgh, PA)

"Improved Dynamic Characterization of the Elastic Properties in Composite Plates" Marco MATTER, Thomas GMUR, Joël Cugnoni, Alain Schorderet (EPFL, Lausanne, Switzerland)

Monday-Wednesday

"A Micromechanical Study of Failure and Damage of Unidirectional Fibre-Reinforced Composites" Michael J. CLIFFORD, L.G. Zhao, Angelo R. Maligno, A.C. Long, N.A. Warrior, (U. Nottingham, UK)

"On Crushing Behaviour of Collapsible Composite Tubular Energy Absorber Devices" Elsadig MAHDI (UPM, Malaysia)

"Fracture Analysis of Specially-Orthotropic Shells Containing a Crack Based on an Improved Shell Theory" Rong LIU, Tie Zhang (Carleton U., Canada)

Monday 10:30AM-12:50AM Room Guezala

Session 1c GENERAL 1

Chairs: F.J. Blanco-Barro, H.J. Choi, A. Senatore, M.A. Khrulenko

"Mechanical Properties of Aramid Paper Honeycomb" Choon-Chiang FOO, Leong-Keey Seah, Gin-Boay Chai, Yin-Chee Peh (Nanyang T.U., Singapore)

"Double Skinned Steel Tubular Short Sandwich Columns" Muhammad Naseem BAIG, Jianguo Nie, Jiansheng Fan (Tsinghua U., China)

"Joint Deformation of Polymer-Impregnated Concrete Layer and Glass Fiber Reinforced Plastic Substratum" M.A. KHRULENKO (ApATeCh, Moscow, Russia)

"Rigid-Plastic Finite Element Analysis on the Bimetal Composite Rod Extrusion Process" Ho-Joon CHOI (KITECH, Incheon, Korea), Byoung-Soo Ham (Inha U.), Joong-Yeon Lim (Dongguk U.), Beong-Bok Hwang (Inha U., Korea)

Monday 10:30AM-12:50AM Room Acaymo

Session 1d MAGNETIC 1

Chairs: R.C. Munoz, Y.T. Tseng, P. Tartaj, S.Y. Hsu

"Hall Effect Induced by Electron-Surface Scattering on Thin Gold Films Deposited on Preheated Mica Substrates Under High Vacuum" Raul C. MUNOZ, J. P. Garcia I, R. Henriquez, A. M. Moncada, G. Kremer, L. Moraga (U. Chile, Santiago) chair

"Fabrication of Oriented Nickel Nanodots Array Using Biodegradable Self-Assembled Block Copolymer as a Template" Yu-Tsan TSENG (Ind.Tech.Res.Inst., Hsinchu), Wen-Hsien Tseng, Bao-Tsan Ko, Rong-Ming Ho (Tsing-Hua U., Hsinchu)

"Electrical Properties of Granular Ferromagnetism near Metal-to-Insulator Transition" Shih-Ying HSU (Nat.Chiao Tung U., Hsinchu)

Mon-Thurs

"PVA – ALGAE Composite Films As Packaging Material" A.A. Sapalidis, Fotios K. Katsaros, Nick KANELLOPOULOS (NCSR, Athens, Greece)

"Improved Soft Magnetic Behaviour in Field-Annealed Nanocrystalline Feconbb Alloys" Ivan ŠKORVÁNEK, Jozef Marcin, Tibor Krenický Jozef Kováč (Kosice, Slovakia), Peter Švec, Dušan Janičkovič (Bratislava, Slovakia)

"Liquid Aerosols: a versatile Technology to Prepare Nanocomposites with Tunable Magnetic Properties" Pedro TARTAJ, Teresita Gonzalez-Carreno, Carlos J. Serna (CSIC, Madrid, Spain) chair

"Study of Undoped Polyacetylene by Differential Scanning Calorimetry (DSC)" Z. Skanderi, Y. BOUZAHER, A.Djebaili (U. Batna, Algerie), M.J.M. Abadie (USTL, France)

Monday 1:50PM-4:30PM Room Nivaria

Session 2a NANO 2

Chairs: S.C. Pillai, M. Leonowicz, R. Verdejo, R. Verdejo

"Processing of High Breakdown Voltage Varistors using ZnO Nanomaterials" Suresh C. PILLAI, John M. Kelly, Declan McCormack, Ramesh Raghavendra (CREST-DIT, Dublin, Ireland) INVITED 30 min
"Carbon Nanotube/Nanofibre Filled Foams" Raquel VERDEJO, Milo S.P. Shaffer (Imperial Coll., UK), Philipp Werner (Hamburg, Germany), Frank Wöllecke, Volker Altstädt, Jan K.W. Sandler (U. Bayreuth, Germany)

"Nano-Structured Titanium Surfaces for Preparing Osteophilic and Osteoinductive Implants" Herbert P. JENNISSEN, Maria Chatziniokolaidou, Daniel Lattner (U. Essen, Germany)

"A Facial One-Pot Synthesis to Polysaccharide-Based Nanoparticles With Carboxy Functional Groups" Kang SUN, Hongjing Dou, Minhua Tang, Weihai Yang (Shanghai Jiao Tong U., China)

"Membrane- and Nanostructure Formation of Highly Functionalized Cellulose- and Dextran Esters: AFM and SEM Studies"

"Esters: AFM- and Sem Studies" Stephanie HESSE, Tim Liebert, Stephanie Hornig, Thomas Heinze (U. Jena, Germany)

"Innovative Processing Method Of Ferromagnetic Nanoparticles Embedded In Polymeric Matrix" E. Sowka1, Marcin LEONOWICZ (Warsaw U.T., Poland), A. D. Pomogailo, G. I. Dzhardimalieva (Chernogolovka, Russia), B. Andrzejewski (PAS, Poland) chair

"Generation and Modification of Metal and Polymer Nanoparticles in Chip Reactors" Michael KOEHLER (TU Ilmenau, Germany) Mon-Tuesday

"Dissipative Processes in Vibration Isolation Mountings based on Natural Rubber Reinforced with Carbon Nanotubes" Eden MAMUT (U. Ovidius, Constanta, Romania)

Monday 1:50PM-4:30PM Room Plataneras

Session 2b MATH 2

Chairs: A. Russo, E.F. Beznea, M. Cho, I. Chirica

"Stress Concentration and Strength Prediction of Composite Plates With Circular Holes" A. RUSSO, B. Zuccarello (U. Palermo, Italy)

"Behaviour Analysis of the Ship Panels Made of Composite Materials" Elena F. BEZNEA, Ionel Chirica (U. Galati, Romania), David Hui (U. New Orleans)

"Higher Order Zig-Zag Theory for Smart Composite Shell Under Mechanical-Thermo-Electric Loading" Maenghyo CHO, Jinho Oh (Seoul Nat.U., Korea), Gun-In Kim (Korea Military Acad., Seoul)

"Simulation of Nanoparticles Interaction" Alexandre V. VAKHROUCHEV (Inst.App. Mech, Ural Branch, Russia)

"Effect of Warping Restraints on Lateral-Torsional Buckling of FRP Beams" Syed Muhammad ALI (Univ.Eng.Tech., Peshawar, Pakistan), Zia Razzaq (Old Dominion U., VA), Akhtar Naeem Khan (Peshawar, Pakistan)

"Finite Element Model of Quadrilateral Plate Used for Composite Panels" Ionel CHIRICA (U. Galati, Romania), David Hui (U. New Orleans), Elena F. Beznea (U. Galati)

Monday 1:50PM-4:30PM Room Guezala

Session 2c GENERAL 2

Chairs: H.W. Koo, R. Sinatra, B.D. Ko, B.D. Ko

"Assessment of Mechanical Properties of Geogrid Reinforcing Material for its Applicability" Hyung-Wook KOO, Han-Yong Jeon (Inha U., Korea), Dong-Hwan Jang (Ulsan Auto, Korea), Beong-Bok Hwang (Inha U.), Joong-Yeon Lim (Dongguk U., Korea)

"Inverse Dynamics of Parallel Pointing Mechanism for a Satellite Antenna" Rosario SINATRA (U. Catania, Italy)

"A Study on Radial Forward Extrusion Process With AA 3105 Aluminum Alloy" Beong-Du KO, Dong-Hwan Jang, Kyung-Ho Min, Beong-Bok Hwang (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea)

"Experimental Investigation on the Tube Forming Process" Young-Ha LEE, Dong-Hwan Jang, Beong-Du Ko, Beong-Bok Hwang (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea)

"An Analysis on the Frictional Property and Long-Term Performance of GT/HDPE Composites" Ji-Hye LIM, Byoung-Soo Ham, Kyung-Ho Min, Beong-Bok Hwang (Inha U., Korea), Won-Seok Lyoo (Yeungnam U., Korea), Eui-Hwa Kim (Korea Inst.Knit Ind.), Yoon-Joong Hwang (CSIRO, Australia), Han-Yong Jeon (Inha U.)

"New Development in Micro-Scale Compounding of Nanocomposites" Johan TIESNITSCH (DSM Xplore, Geleen, Netherlands)

"Strength of Composite to Aluminum Hybrid Joints with Combined Mechanical Fastening and Adhesive Bonding" Jae-Woo Jung, Jin-Hwe Kweon, Jin-Ho Choi (Gyeongsang Nat.U., Korea)

"Narrow Band Ultrasonic Spectroscopy - A New Method for the Inspection of Carbon Fiber Reinforced Composites"

Tadeusz STEPINSKI, M. Jonsson (Uppsala, Sweden)

Monday 1:50PM-4:30PM Room Acaymo

Session 2d MAGNETIC 2

Chairs: R.L. Karlinsey, W.S. Lee, Y.K. Kim, Z. Zhong

"Engineering on the Positioning of GeSi Nano-Islands on Prepatterned Si (001) Substrates" Zhenyang ZHONG (Johannes Kepler U. Linz, Austria) INVITED 30 min

"Core-Shell Nanowires for Photovoltaic Applications" Claude LEVY-CLEMENT, R. Tena-Zaera, A. Katty, S. Bastide (CNRS-Thais, France) INVITED 30 min, Tuesday-Friday

"A Study on the Material and Electrical Properties of ZnO-Based Varistors" Chung-Chih LIN (Chung Cheng I.T., Taoyuan), Woei-Shyong Lee (Mackay Medicine, Taipei)

"Theoretical Studies on the Core-Shell Particles Dispersed in an Electrorheological Fluid" I-Chung Cheng (Chung Cheng Inst. Tech., Taoyuan), Woei-Shyong LEE (Mackay Medicine, Taipei)

"Composition and Microstructure of Novel Niobium Oxide Films" Robert L. KARLINSEY, Keewook Yi (Indiana U., Indianapolis) chair

"The Role of Nano-Sized Particles on the Creep Properties of Advanced Ferritic Steels" Jaroslav PURMENSKY, Vaclav Foldyna (Vitkovice Research, Ostrava, Czech Rep.)

Monday 4:30PM -4:50PM short break

Monday 4:50PM-7:30PM Room Nivaria

Session 3a NANO 3

Chairs: M. Shoeib, G. Westin, D.H.L. Ng, D.Ruiz-Molina

"Synthesis of Mgo Nanorods by Reaction Sintering of NaCl Doped Mg-ZnO" Dickon H.L. NG, T.K. Li, M.Y. Yau (Chinese U. Hong Kong, China) INVITED 30 min

"Solution Chemical Routes to Complex Materials" Gunnar WESTIN (Uppsala U., Sweden) INVITED 30 min

"Self-Organized Patterns of Luminiscent Molecules in a Nano-/Microporous Polymer Matrix by the Breath-Figures Method" Daniel RUIZ-MOLINA, J. Gómez (CSIC, Barcelona, Spain), M. Cavallini, F. Biscarini (Bologna, Italy), J. Veciana (Barcelona, Spain) INVITED 30 min

"Synthesis of Layered-Silicate-Carbon Nanotubes Nanocomposites by Chemical Vapor Deposition Method" Martin K.S. LI, P.Gao, P.L. Yue, X.H. Hu (Hong Kong U. Sci.Tech., China)

"Electrochemical Ni-Cr-Al₂O₃ Nano Composite Coatings" Madiha SHOEIB (CMRDI, Cairo, Egypt), Nahed El Mahallawy (Ain Shams U., Cairo), Maamoun Abdel-Hamid (CMRDI, Cairo), Heinz Palkowski (TU Clausthal, Germany)

"Nano Structured Rhodamine 6g-SiO₂ Material for Solid State Dye Laser Applications" Stefania GRANDI, A. Magistris, P. Mustarelli (U. Pavia, Italy), C. Tomasi (IENI-CNR, Pavia, Italy), C.M. Carbonaro, A. Anedda (Cittadella U., Cagliari, Italy)

"Conjugated Polymer's Monolayers Engeneering:a Route Toward Nanoelectronic" Riccardo NARIZZANO, Claudio Nicolini (U. Genoa, Italy)

Monday 4:50PM-7:30PM Room Plataneras

Session 3b MATH 3

Chairs: E.L. F. Roetman, L. Nahlik, K. Momenkhani, L. Nahlik

"Nonlinear Analysis of Composite Shells under Incremental Compression and Constant Lateral Pressure" Soo-Young Choi, Jin-Hwe Kweon, Jae-Woo Jung, Jin-Ho Choi (Gyeongsang Nat.U., Korea)
"A New Study of the Effects of Fatigue Damage on Hysteresis Loops of Fiber-Reinforced Plastic Laminates" Kourosh MOMENKHANI, Shahram Sarkani (George Washington U., DC)

"Statistical Tools Used in Experiments Designed for Epoxy Resin Fatigue" Salvador NAYA, Ramon Artiaga, Ignacio Lopez de Ullibarri, Ana Garcia (U. Coruna, Spain), Sofia Martínez Vilarino (U. New Orleans)
"Damage of Thin Films Induced by Fatigue Crack Propagation" Lubos NAHLIK (Inst.Phys.Mat, Brno, Czech Rep.)

"Notes on Anisotropic Boundary Value Problems" E.L. Fritz

ROETMAN (Henry Cogswell Coll., Everett, WA) chair

"MODERN PROBLEMS OF POROMECHANICS" Igor V. SHIRKO, Dmitry S. Kondratyev (Moscow, Russia)

"Elastic and Strength Properties of Carbon Whiskers at Tension" D.S. LISOVENKO, V. A. Gorodtsov (Inst.Prob.Mechanics, Moscow, Russia)

"Percolation: an Alternative to the Virtual Crystal Approximation for the Description of Long Wave Phonons in A_{1-x}B_xC Zinblend Alloys" Olivier PAGES, A. Chaffi, T. Tite, J. Gleize (U. Metz, France), A. Postnikov (IMP, Russia), E. Tournie (U. Montpellier, France)

INVITED 30 min, Mon-Wed

Monday 4:50PM-7:30PM Room Guezala

Session 3c GENERAL 3

Chairs: T. Murakami, A. Stanciu, K.H. Min, C.C. Tsao

"Flange Wrinkle Evaluation of Deep Drawing Product of Stitched Multiaxial FRTP Using Prepreg Tape" Toshiki MURAKAMI, Tsutao Katayama, Kazuto Tanaka (Doshisha U., Kyoto, Japan), Yasunori Nakamura (Osaka Sangyo U.), Kazutaka Uno (Marubeni intex Co., Osaka), Masachika Yamane (Toyobo Co., Osaka, Japan)

"Maximum/Cumulative Strain Sensors Based on Fiber-Reinforced Composites Including Conductive Particles" Yoshiki OKUHARA, Hideaki Matsubara (Japan Fine Ceramics Cen., Nagoya, Japan) Mon-Tuesday

"New Interpenetrated Polymer Networks (IPN) for Stone Conservation" Aurelian STANCIU (Inst.Macro.Chem., Iasi, Romania), Mariano Fusco (Massa, Italy), Valeria Harabagiu (Iasi, Romania), Lorenzo Perelli (Genova, Italy), Bogdan C. Simionescu (Iasi, Romania), Alessandro Bozzolo (Genova, Italy)

"Modeling of Critical Thrust Force and the Effects of Size Ratio Between Stages of Step Drill in Drilling Composite Materials" C. C. Tsao (Ta-Hua Inst.Tech., Hsinchu), H. Hocheng (Nat.Tsing-Hua U., Hsinchu) Mon-Thurs

"SOL-GEL SiO₂ Antireflection Coatings On Glass: Accelerated Weathering Tests" Gema SanVICENTE, R. Bayón and A. Morales (CIEMAT, Madrid, Spain)

"Deposition of Ni-W-P Alloys by Electroless Plating as Protective Coatings for Metallic Foils" Rocio BAYON, G. San Vicente, A. Morales (CIEMAT, Madrid, Spain)

"A Proposed Process of Recycled Beads for Expandable Polystyrene Foam" Jung-Min SEO, Beong-Bok Hwang, Byoung-Soo Ham, Dong-Hwan Jang (Ulsan Auto Parts, Ulsan, Korea)

"An Analysis of Powder Compaction on the Density Distribution in Long Parts" Kyung-Ho MIN, Jung-Min Seo, Young-Ha Lee, Dong-Hwan Jang, Beong-Bok Hwang (Inha U., Korea)

"Antenna Integration With Composite Sandwich Structure by Transmission/Reflection Methods of Incident Wave" Chi-Sang You, Woonbong HWANG (POSTECH, Pohang, Korea) Mon-Tues

Monday 4:50PM-7:30PM Room Acaymo

Session 3d MAGNETIC 3

Chairs: T. Perova, S. Nespurek, Y.F. Long, X.Y. Ji

"Sensing Proerties of Epoxy Resin/Sprayed Carbon Black Conductive Composites" Xiaoyong JI, Hui Li, Jinping Ou (Harbin I.T., China)

"Formation of Electret and Dipolar Nanostructures Using an Electron Transfer and Photochromism" Stan NESPUREK (Prague, Czech Rep.)

"Directional Growth and Transport Characteristics of Semiconducting Fe₂O₃ Nanowires" Shihe YANG, Xiaogang Wen, Suhua Wang (Hong Kong U.Sci.Tech., China), Yong Ding, Zhong lin Wang (Georgia Tech.), Zhiyong Fan, Jia G. Lu (UC Irvine, Calif.) INVITED 30 min

"Light-Emission From Nanostructured Si-in-SiN Films" Libo Ma, Rui Song, Zexian CAO (Inst.Physics, Beijing, China)

"Monodisperse Polymer Microspheres From Ppq-B-Peg By Self-Assembly" Yongfu LONG, Kai Xie, Jin Xin, Xueao Zhang, Jiayu Xiao (Nat. U. Def Tech., Hunan, China)

"Strain, Composition and Crystalline Perfection in Thin SiGe Layers Studied by Raman Spectroscopy and X-Ray Diffraction" Tatiana PEROVA, Alan Moore (U. Dublin, Ireland), Klara Lyutovich, Michael Oehme, Erich Kasper (U. Stuttgart, Germany) chair

"Kinetics of the Isomerization Reaction of Undoped Polyacetylene by Multichannel Raman Spectroscopy" Z. Skanderi1 (U. Batna, Algeria), A. DJEBAILI (U. M'sila, Algeria)

"Erbium-Doped Zinc Oxide Thin Films Deposited by Spray Pyrolysis Method" R. Dounia, Mohammed ADDOU (Kenitra, Morocco), A. El Hichou, J. Ebothé (U.Reims, France), M.A. Lamrni (Kenitra, Morocco), J.C. Bernède (Reims, France), L. Dghoughi, B. ElIdrissi, M. Regragui (Kenitra Morocco)

Monday 7:50PM-10:30PM Room Nivaria

Session 4a NANO 4

Chairs: M.H. Kuok, P.M. Mendes, M. Iwaya, S. Magdassi

"Brillouin Studies of Nanostructures" Meng-Hau KUOK, Y. Li, H. S. Lim, Z. K. Wang, S. C. Ng (Nat.U., Singapore), H. L. Su, S. L. Tang (Nanjing U., China) INVITED 30 min

"Moth Eye Structured High-Efficiency Nitride-Based Light-Emitting Diodes" Motoaki IWAYA, Hideki Kasugai, Yasuto Miyake, Akira Honshio, Shunsuke Mishima, Takeshi Kawashima, Kazuyoshi Iida, Satoshi Kamiyama, Hiroshi Amano, Isamu Akasaki (Meijo U., Nagoya, Japan) Monday

"Mechanism of Aggregation and Nanostructure Formation in Solutions of Rigid-Rod Polymers In Strong Acids" Natalja Lukasheva, Anatoly DARINSKII (St. Petersburg, Russia)

"Ink-Jet Inks Containing Metallic Nanoparticles for Digital Printing of Conductive Patterns" Shlomo MAGDASSI, Alexander Kamyshny, Shai Aviezer, Michael Grouchko (Hebrew U. Jerusalem, Israel)

"Nano ZnO-Ag Composite Modified Antibacterial and Antistatic PET Fiber" Liqin GU, Xiuli Qi, Lixia Gu (Donghua U., Shanghai, China)

"A Solitary-Wave-Like Phenomenon in Langmuir Films of [2]Rotaxanes" Paula M. MENDES, Weixing Lu, Hsian-Rong Tseng,, Takahiro Lijima, Masaaki Miyaji, Charles M. Knobler, J. Fraser Stoddart (U. Calif. Los Angeles) chair

"Elastic Model for Non-Brownian of Nanoparticles" T.P. CHANG (Nat.Kaohsiung First U.Sci.Tech., Kaohsiung), Mei-Feng Liu (I-Shou U.)

Monday 7:50PM-10:30PM Room Plataneras

Session 4b MMC 1

Chairs: Q.F. Yang, A. Gural, S.P. Hannula, T.R. Vijayaram

"Coating of γ -FeNi on Spherical Al_2O_3 Micro-Powders by the Precipitation" Wang-Xing Li, Yexiang Liu (Central South U., China), Qiao-Fang YANG(Zhengzhou, China), Xiang-Qian Shen (Jiangsu U., China)

"Wear Behaviour of Powder Metallurgy Processed Dual Phase Composite Steels" Suleyman Tekeli, Ahmet GURAL (Gazi U., Turkey)

"Abrasion Resistance of Wc-Co Reinforced Steel Matrix Composites" Sanna Ala-Kleme (Helsinki U.T., Finland), Jussi Hellman, Jari Liimatainen (Metso Powdermet Oy, Finland), Simo-Pekka HANNULA (Helsinki U.T., Finland)

"Quantification of Mechanical Properties and Characterization of Fracture Surfaces on the Ascst Quartz Particulate Reinforced Aluminium – 11% Silicon Alloy Matrix Composites" Thoguluva Raghavan VIJAYARAM, Mohamad Sayuti, Shamsuddin Sulaiman, Abdel Magid Salem Hamouda (U. Putra Malaysia)

"Dry Sliding Wear of Al 2014 Reinforced With Al_2O_3 Particles" M.N. MAZLEE, J.B. Shamsul, C.M. Ruzaidi, K.R. Ahmad, A.N.M. Shima, M.W.M. Fitri, K. Hussin (Northern Malaysia U.)

Monday 7:50PM-10:30PM Room Guezala

Session 4c CHEMISTRY 1

Chairs: M. Sarmadi, M. Kaminski, K.K. Kuo, R.R. Zahran

"Preparation and Charaterization of Isotropic Compatible HDPE/PP Polymer Composites Blends for Structural Applications" M. Awwad, M. M. Abd El-Latif (Egypt), R.R. ZAHARAN (Alexandria U., Egypt)

"Growth and Characterization of GaN and $Ga_{1-x}Mn_xN$ Layers Obtained by Sandwich Sublimation Method" Michal KAMINSKI, Slawomir Podsiadlo (Warsaw U.T., Poland), Wlodzimierz Strupinski (Inst.Electronic Mat.Tech., Warsaw, Poland)

"Improvement of Surface Wetting Properties of Poly (p-phenylenebenzoxazole) Fiber by Incorporation of Ionic Groups" Guang LI, Shenglin Yang, Junhong Jin, Jianming Jiang (Donghua U., Shanghai, China)

"Sintering of Naturally Derived Hydroxyapatite With Boron Oxide Addition" Mehmet Ipekoglu, Sabri ALTINTAS (Bogazici U., Istanbul, Turkey)

"Morphology Control and Mechanical Properties of Polyimide-Silica Hybrids Obtained by a Sol-Gel Route" Pellegrino Musto, Giuseppe Ragosta, Pietro RUSSO (ICTP, Pozzuoli,Italy)

"Ignition and Combustion of Nano-Scale Asymmetric Aluminum Particles in Hot Gas Environment" Damian Tatum, Ryan Houim, Kenneth K. KUO (Penn St.U.)

"Deposition of Reactive Functionalities by Plasma Polymerization of Nitrogen-Containing Compounds" Majid SARMADI, S.N. Jampala, S. Manolache, F.S. Denes (U. Wisconsin-Madison) chair

"Investigation of the Influence of the Aging on Strength and Deformation Properties of Getinaks Composites" Sona VALESYAN (Yerevan, Armenia)

"Evaluation on the Chemical Resistance of GT Composites" Mun-Sung MOK, Dong-Hwan Jang, Jung-Min Seo, Boeng-Bok Hwang (Inha U., Korea), Youn-In Chung (Keimyung U., Korea), Yoon-Joong Hwang (CSIRO, Australia), Han-Yong Jeon (Inha U.)

Monday 7:50PM-10:30PM Room Acaymo

Session 4d INFRASTRUC 1

Chairs: Bin Hussain, F. Sevuk, Z. Shi, R. Fangueiro

"Influence of Environmental Conditions on the Bond Between Concrete and GFRP Sheets" Mohammed A. BIN HUSSAIN, Saleh H. Alsayed, Tarek H. Almusallam (Riyadh, Saudi Arabia)

"Contribution of Different Parameters on the Performance of Steel Plated RC Beams" Guray Arslan, Filiz SEVUK, Ibrahim Ekiz (Yildiz T.U., Turkey)

"Concrete Reinforced by Braided Fibre Composite Rods" Raul FANGUEIRO, G. Sousa, F. Soutinho, S. Jalali, M. deAraujo (U. Minho, Portugal)

"Finite Element Analysis of Retrofitted Reinforced Concrete Beams by Using Steel Plate" Guray ARSLAN, Filiz SEVUK (Yildiz T.U., Turkey)

"Numerical Studies of Shear Effects in Mixed-Mode Fracture of Concrete" Zihai SHI (Nippon Koei Co, Tsubuka, Japan) chair

"Comparison between Organic and Inorganic Matrices for Strengthening RC Beams with Carbon Fiber Sheets" Houssam TOUTANJI, L. Zhao, Y. Deng (U. Alabama-Huntsville) Mon-Tues

"Swift Heavy Ions for Nano-Fabrication of Titanium Dioxide" Yi WANG (Shen Yang Grandway Building Mat., China)

"Extracting Information from Conventional Ae Features in Carbon Fiber Composites" Li JIANG, Yi Wang (Shen Yang Grandway Building Mat., China)

"The Physico-Mechanical and Microstructure Properties as Well as the Effect of 4% Mgso4 Solution

on Sulphate Resisting, Granulated Slag and Ordinary Portland Cement Pastes" Basil A. EL-SABBAGH, A.M. Kandeel (Housing and Building Res.Cen., Cairo, Egypt) POSTER

Tuesday **KEYNOTE LECTURES** 8:00AM-10:00AM Room Nivaria

"Nanoscale and Microscale Organization in Biological Systems" Arup K. CHAKRABORTY (UC Berkeley, Calif.)

"Molecular-Dynamics Simulations of Crystallization Processes in Silicon: Interface Nanostructures" Teruaki MOTOOKA (Kyushu U., Japan)

"Recent Advances on the Studies of Nanostructured Materials for Electronic Packaging Applications" Y. Li, H. Jiang, Y. Sun, L. Zhu, J. Xu, J. Lu, C.P. WONG (Georgia Tech.)

Tuesday 10:00AM-10:30AM Coffee Break

Tuesday 10:30AM-12:50PM Room Nivaria

Session 5a NANO 5

Chairs: D. Bhattacharyya, R.A. Timm, M. Kireitseu, Y.J. Li

"Nano-and Micro-Fibrillar Polymer Composites and their Applications in Manufacturing" Debes BHATTACHARYYA (Auckland U., New Zealand)

"Multiscale Computational Simulation and Analysis Tools for Modeling of Carbon-Based Nanocomposites" Liya BOCHKARYOVA (Minsk, Belarus), David Hui (U. New Orleans), Maksim Kireitseu (Minsk, Belarus)

"Structure and Properties of Poly(4,5-Diamine-2,6-Dimercapto-Pyrimidine)/V₂O₅ Nanocomposite Films Produced by Sol-Gel Process" Ronaldo A. TIMM, Henrique Eisi Toma (U. Sao Paulo, Brazil)

"p(2x1) Reconstruction on Si(001) Surface Studied by NC-AFM at 5K" Yan-Jun LI, Yoshitaka Naitoh, Masami Kageshima, Yasuhiro Sugawara (Osaka U., Japan) Tuesday-Wednesday

"Sub-Nanometer Resolution Dynamic Force Microscopy in Liquids" Y. SUGAWARA, K. Fujii, Y. Naitoh, M. Kageshima (Osaka U., Japan) Tues-Wed

"Study of Fullerene-Doped Composite Systems: New Materials for Optoelectronics" Natalie KAMANINA (St. Petersburg, Russia), David Hui (U. New Orleans), Maksim Kireitseu (Minsk, Belarus)

"Aging and Adhesion Behaviour of Epoxy-Nanoclay Composites" Amos OPHIR, A. Dotan, H. Dodiuk, I. Belinsky, S. Kenig (Shenkar College Engr. Design, Ramat-Gan, Israel)

"Next Generation Damping Systems: Nanoparticle Reinforce-Ment Design Concepts And Computational Modelling Tools" Maksim KIREITSEU (Minsk, Belarus), G. Tomlinson, G. Rongong (U. Sheffield, UK), David Hui (U. New Orleans)

Tuesday 10:30AM-12:50PM Room Plataneras

Session 5b MATH 4

Chairs: C. Ibeh, R. Segev, J.C. Linhares, Z. Knesl

"Model for Fracture Toughness of Polymeric Composites Based on Energy Dissipation Analysis" Andrey Beyle, Christopher IBEH, Ademola O. Owolabi (Pittsburg St. U., Kansas), David Hui (U. New Orleans)

"Evaluation of the Fatigue Threshold of Coated Structures" Zdenek KNESL, Pavel Bares, Lubos Nahlik (Brno, Czech Rep.)

"Relationship between Functional and Geometric Modeling Domain: a Research Review" Joao Carlos LINHARES (U. Santa Catarina, Brazil), Altamir Dias (Florianopolis, Santa Catarina, Brazil)

"Bounds on Optimal Stress Distributions" Reuven SEGEV, Ronen Peretz (Ben-Gurion U., Israel)

"Analysis of the Composite Posts Elements Subjected to Dynamic Loading" Tadeusz NIEZGODA (Military U.T., Warsaw, Poland), Zbigniew Smalko (Warsaw U.T., Poland)

"The Plane Deformation State of Elastic Plane With Finite Rigid Inclusion Under Harmonic Loading" Vahram N. Hakobyan, Avetik V. SAHAKYAN, Arman H. Sargsyan (Yerevan, Armenia)

"On One Method of Increasing the Strength and Damping Properties of Driving Hollow Shafts from Reinforced Composites" Korjun KARAPETYAN (Yerevan, Armenia)

"On One Effective Method of Solution of Static And Dynamic Problems for Thin Composite Bodies" Mher L. AGHALOVYAN, Lenser A. Aghalovyan (Yerevan, Armenia)

Tuesday 10:30AM-12:50PM Room Guezala

Session 5c BIO 1

Chairs: M.D. Collyer, J.L. ValinRivera, J. Rivas, M. Aguirregabiria

"Modeling and Analysis of Orthopedic Prosthesis Goes Inferior Members in People With Act Among 18 to 30 Years Using Materials of the Amazon Region" Marcio David COLLYER, Jose Luis Valin Rivera, Fabian Carvalho Dias, Ademir Castro e Silva, Marlene Araújo de Faria, Odwald Schreder, Gilberto Garcia del Pino, Israel Chacon Rodrigues Carneiro de Albuquerque, Paulo Alexandre Barbosa dos Santos, Rodrigo Cerqueira Ciarlini (Univ. State of Amazons, Manaus, Brazil)

"Analysis and Simulation of the Mechanical Behavior of Orthopedic Prosthesis for Inferior Members in Adolescents Developed With Materials of the Amazon Region" José Luis VALIN-RIVERA, Fabian Carvalho Dias, Márcio David Collyer, Ademir Castro e Silva, Marlene Araújo de Faria, Odwald Schreder, Gilberto Garcia del Pino, Israel Chacon Rodrigues Carneiro de Albuquerque, Paulo Alexandre Barbosa dos Santos, Rodrigo Cerqueira Ciarlini (Univ.State of Amazons, Manaus, Brazil)

"Novel 3D Embedded Microfluidic Channels for Biomems Applications" Maria AGUIRREGABIRIA*, F.J. Blanco, J. Berganzo, M. T. Arroyo, M. Tijero, J. M. Ruano, J. García, I. Aramburu, Kepa Mayora (Ikerlan S. Coop, Mondragon, Spain)

"An "In Vitro" Dielectric Characterization of Teeth With and Without Restorative Materials" Jose RIVAS, B. Rivas, M.P. Varela, B. Martin, P.M. Botta, A. Fondado (U. Santiago Compostela, Spain)

"Optical Nano Device Components for Nerve Gas Sensors" Robert E. MARGANSKI, Jeffrey S. Lang, Leslie A. Stauffer (Performance Mat.Div., Reno, NV)

"Processing, Microstructure and Thermal Properties of Hydroxyapatite (Hap) Obtained by Calcination of the Fish Bones" W.R. Weinand, T.M. Coelho, F.F.R. Goncalves, A.C. Bento, Walter M. LIMA (U.Est.de Maringa, Brazil)

Tuesday 10:30AM-12:50PM Room Acaymo

Session 5d OXIDE 1

Chairs: Y. Tanaka, J.P. Locquet, T. Endo, K. Endo

"Conceptual Scope of Multilayer Cuprate Superconductor: Implementation of Multiple Components on a Macroscopic Quantum State Toward a New Quantum Phase Electronics" Yasumoto TANAKA, Akira Iyo (AIST, Tsukuba, Japan) INVITED 30 min, Tuesday-Thursday

"Water Molecule Adsorption Properties and Electronic Structures of Metal Oxide Photo-Catalysts Designed for Water Decomposition" Mitsutake OSHIKIRI, M. Boero (Nat.Inst.Mat.Sci., Ibaraki, Japan) INVITED 30 min

"Molecular Beam Epitaxy for Advanced Gate Stack Materials and Processes" Jean-Pierre LOCQUET (IBM Research Zürich, Switzerland)

"HfO₂ High-k Dielectrics Grown on Ge by MBE: Structure and Interfacial Stability" Jin-Won SEO, Christel Dieker (Lausanne, Switzerland), Jean-Pierre Locquet (IBM, Zurich, Switzerland), Georgia Mavrou, Athanasios Dimoulas (MBE Lab, Athens, Greece)

"Large Room Temperature Coercivity in e-Fe₂O₃ Nanoparticles" Josep NOGUES, M. Gich, A. Roig, J. Sort, C. Frontera, M. Popocivi, V. Skumryev, W.A.A. Macedo, H.R. Rechenberg, E. Molins (U. Auto. Barcelona, Spain) INVITED 30 min, Tues-Friday

Tuesday 12:50-1:50PM LUNCH

Tuesday 1:50PM-4:30PM Room Nivaria

Session 6a NANO 6

Chairs: D. Fichou, B. Vlckova, D.H.C. Chua, Y. Zheng

"Observation of Self-Assembled Ni Nanoclusters in a Diamond-like Amorphous Carbon Matrix" Daniel H.C. CHUA (N.U. Singapore), B.K. Tay, P. Zhang (Nanyang T.U., Singapore) INVITED 30 min, chair
"Building-up Supramolecular Self-Assemblies on Surfaces : Towards Molecular Nanoelectronics" Denis FICHO (CEA, Gif-sur-Yvette, France) INVITED 30 min

"Probing Strong Optical Fields in Molecularly Bridged Silver Nanoparticle Dimers and Small

Aggregates by Surface-Enhanced Raman Scattering" Blanka VLCKOVA, M. Moskovits, I. Pavel, M. Sladkova, K. Siskova, P. Smejkal, M. Slouf, J. Hromadkova (Charles U., Czech Rep.)

"Studies on TiO₂-Epoxy Nano-Composites" Yaping ZHENG, Aibo Zhang (Northwestern Poly U., Xian, China), Ying Zheng (U. New Brunswick, Canada)

"Probing of Network Structural Aspects of SiO₂ Nanoparticles Via Electron Spin Resonance of

Fundamental Point Defects" Andre STESMANS, K. Clemer, V.V. Afanas'ev (U. Leuven, Belgium)

"Silica-Coating of AgI Nanoparticles Using a Modified Stöber

Method" Yoshio KOBAYASHI, Kiyoto Misawa, Motohiro Takeda (Tohoku U., Japan) Masaki Kobayashi (Tohoku I.T., Sendai, Japan), Masanobu Satake, Yoshiyuki Kawazoe, Noriaki Ohuchi, Atsuo Kasuya, Mikio Konno (Tohoku U.) Monday-Tuesday

"Composites With High Content Nanotube by Chemical Grafting" Muhuo YU (Donghua U., Shanghai, China)

"Nanopowders Al₂O₃-ZrO₂ for Thermal Coatings" Lidia CRISTEA (Poli U. Bucharest, Romania)

Tuesday 1:50PM-4:30PM Room Plataneras

Session 6b BIO 2

Chairs: B.G. Min, D.W. Cho, A.A. Spector, E. Antipov

"Nanocomposites Based on Biodegradable Bacterial Polyhydroxyalkanoates and Layered Silicates. Preparation, Structure, Properties" Evgeny ANTIPOV, Vadim Dubinsky, Viktor Gerasin, Alexandr Rebrov (Topchiev Inst., Moscow, Russia), Hartmut Fischer (TNO, Eindhoven, Netherlands)

"Morphology and Adsorption Properties of PVA/Chitosan Biocomposite Foams" Byung-Gil MIN, Xiao Wang (Kumoh National I.T., Gumi, Korea), Yong Sik Jeong (Chonbuk N.U., Korea) INVITED 30 min

"Biodegradable Nanofibers Preparation Characterization and Blood Vessel Regeneration" Xiumei MO (Donghua U., Shanghai, China), Hans-Joachim Weber (Aachen U., Germany) chair

"Effects of Ultrasonic Cleaning and Surface-Treatment on the Interfacial and Mechanical Properties of Henequen/Unsaturated Polyester Biocomposites" Donghwan CHO, Sung Bong Yoon, Jeong Min Seo (Kumoh Nat.Inst.Tech., Korea), Seong Ok Han (Korea Inst.Energy Res., Daejeon), Won Ho Park (Chungnam Nat.U., Daejeon, Korea)

"Modeling Nanomotors in a Composite Active Biological Membrane" Alexander A. SPECTOR (Johns Hopkins U., MD)

"Biocomposite Based on PVOH and Sea Algal Fiber: Solar Degradation Studies" Tomas Madera, Daniel Robledo, Jose Antonio Azamar, Yolanda FREILE-PELEGRÍN (Unidad Merida, Yucatan, Mexico)

"Characterization of Bio-Particles Generated by Ultra-High-Pressure Processing" A. Delgado, W. Dorster, A.Baars, C. Eder, H. Petermeier, R. Benning (TU Munchen, Germany)

"Fabrication and Analysis of Biomorphic Sic-C_{bio} Composite" Teresa L. Y. CHEUNG, Dickon H. L. Ng (Chinese U. Hong Kong, China)

Tuesday 1:50PM-4:30PM Room Guezala

Session 6c GENERAL 4

Chairs" H.S. Koo, D.H. Jang, F.S. Boydag, J.H. Ok

"Finite Element Analysis for the Min/Max Density Ratios Within Copper Powder Compacts" Hoon-Seo KOO, Jung-Han Ok, Dong-Hwan Jang, Byoung-Soo Ham, Beong-Bok Hwang (Inha U., Korea)

"A Reappraisal of Various Compacting Methods for Wasted Expanded Polystyrene Foam" Jung-Han OK, Jung-Min Seo, Byoung-Soo Ham, Dong-Hwan Jang and Beong-Bok Hwang (Inha U., Korea)

"Finite Element Analysis of the Compaction Processes of Copper Powders for Solid Three-Level (Class Iv) Parts" Dong-Hwan JANG (Ulsan Auto Parts, Korea), Byoung-Soo Ham, Beong-Bok Hwang (Inha U., Korea)

"Relationships of Pressure Ratios for Copper Powders" Beong-Bok HWANG, Jung-Han Ok (Inha U., Korea), Dong-Hwan Jang (Ulsan Auto Parts, Korea)

"A Study on the Pressure Along the Powder-Die Interfaces in Compaction Processes of Metal Powders" Byoung-Soo HAM, Hoon-Seo Koo, Young-Ha Lee, Beong-Bok Hwang (Inha U., Korea), Dong-Hwan Jang (Ulsan Auto Parts, Ulsan, Korea)

"Simultaneous Effect of Mechanical Tension on Electrical Life Time of LDPE / Diamond Composites" F.S. BOYDAG (Dogus U., Istanbul, Turkey), Y.Lenger Ozcanlı, V.A. Alekberov (Yildiz T.U., Turkey), İ. Hikmet (Dogus U.), M. Canturk (Yildiz T.U.) Tuesday-Wed

"Analytical and Experimental Evaluation of Service Life of Spouting Chutes in Order to Formulate Rejection Criteria Providing for 50-Year Safe Service" Andrey V. PANKOV, Andrey Ye. Ushakov, Maxim Ye. D'yakov (ApATeCh, Russia) Mon-Thurs

"Comprehensive Analytical Approach to Resin Transfer Molding" Stanislav DUBINSKY, Eugeny Galchenko, Eugeny Kornienko (ApATeCh, Moscow, Russia) Mon-Thurs

Tuesday 1:50PM-4:30PM Room Acaymo

Session 6d MAGNETIC 4

Chairs: J. Rodriguez, W.J. Yeh, D. Arar, M.S. Khireddine

"Ruthenium Molecular Wires With Potential Applications in Nanotechnology" Joao RODRIGUES (U. Madeira, Portugal) Tuesday-Friday

"Study of the Temperature Distribution During Isomerisation Reaction of Polyacetylene Induced by Laser Effect" Z. Skanderi, M.Salah KHIREDINE, A. Djebaili, S. Bougoul (U. Batna, Algeria)
"A Multichannel Raman Spectrometry Study of Polyacetylene Isomerization Induced by Laser Irradiation" Z. Skanderi, D. ARAR, A. Djebaili (U. Batna, Algeria), V. Tabacik (U.Sci.Tech. Languedoc, Montpellier, France)

"Boron-Induced Ordered Growth of C60 on Si(111)" Tanja STIMPEL-LINDNER, H. Baumgärtner, I. Eisele

"Electrical Properties of MgFe₂O₄ Nano-Particles Formed by Sol-Gel Route" A. Pradeep, G. Govindaraj, G. CHANDRASEKARAN (Pondicherry U., India)

"Magnetic Properties of Nanoparticles With Core/Shell Structure" You-Wei DU, N.J.Tang, H.Y. Jiang, X.S.Liu, W. Zhong (Nanjing U., China)

"Fabrication of Magnetic Nanowire Composite and Nanodots from Nanochannel Glass" Wei-Jiang YEH, Bo Cheng, Kun Yang, B.L. Justus (U. Idaho) Mon-Thursday

"Electronic and Magnetic Properties of Like-Ring Fe₆ and Fe₆@Si₁₂ Clusters" M.A. BELKHIR, Madani Samah (U. Mira, Bejaia, Algeria)

Tuesday 4:30-4:50PM short break

Tuesday 4:50PM-7:50PM Room Nivaria

Session 7a NANO 7

Chairs: A.K.T. Lau, N.B. Wong, N.E. Tran, H. Tanaka, I. Klemenoks

"Recent Research in Nanotube/Nanoclay Related Polymer Composites" Alan K.T. LAU (Hong Kong Poly U., China) DISTINGUISHED Lecturer, 40 min, Tues-Wed

"Construction of Metal Oxide Nano-Heterostructures using Laser-MBE and AFM Nanolithography, Toward Room Temperature Spintronics" Hidekazu TANAKA, Tomoji Kawai (Osaka U., Japan) INVITED 30 min Tues-Wednesday

"Single Silicon Nanowire as Sensor for DNA Detection" M.W. Shao, M.L. Zhang, Ning-Bew WONG, S.T. Lee (City U. Hong Kong, China) Tuesday-Friday

"Hybrid Nanocomposites Based on Polybenzoxazine Resins and Montmorillonite" Sorina Alexandra Garea, Stefania Stoleriu, Georgeta Voicu, Horia IOVU (U. Bucharest, Romania)

"IR Spectral Analysis of Single-Walled Carbon Nanotubes Purified by Thermal Reduction Technique" Nick E. TRAN, SamG. Lambrakos (Naval Res. Lab., DC) chair

"Research of Influence of an Environment on Resistance of Nanocomposites Materials" Igors KLEMENOKS, Gita Shakale, Valdis Teteris, Maris Knite (Riga T.U., Latvia)

"Nanostructured Optical Materials: Antireflecting Coatings for Solar Cells" E. Chambon, E. Florentin, R. Zakharchenko (CINVESTAV, Mexico), T. Torchynska (ESFM, Mexico), J. González-Hernandez (CIMAV, Mexico), J.F.J. Alvarado (Guanajuato, Mexico), Yu. VOROBIEV (CINVESTAV)

"Controlled Synthesis of Novel Polyaniline Nanostructures Using In Situ Self-Assembly of Magnetic Nanoparticles" Haibing Xia, Daming Cheng, Changyong Xiao, Hardy Sze-On CHAN (Nat.U. Singapore)

"Assembly of Silicon Nanoparticles Roll up into Flexible Nanotubes" Sahraoui CHAIEB, Munir H.Nayfeh, Adam D. Smith (U. Illinois-Urbana)

Tuesday 4:50PM-7:50PM Room Plataneras

Session 7b MATH 5

Chairs: J.C. Lopez, O. Philander, C. Navarro, J. Malachowski

"Impact Behaviour of in-Plane Pre-Loaded CFRPs Panels" S.K. Garcia-Castillo, S. Sanchez-Saez, E. Barbero, Carlos NAVARRO (Carlos III U. Madrid, Spain)

"Characterising the Non-Linear Behaviour of Polymeric Foam Cushions" Vincent Rouillard, Michael A. SEK, Anthony Parker (Victoria U.T., Melbourne, Australia) INVITED 30 min

"Research of Energy Absorbing by Basic Composite Structures" Tadeusz Niezgodza, Stanislaw Ochelski, Wieslaw Barnat, Jerzy MALACHOWSKI (Military U.T., Warsaw, Poland)

"Homogenization for Non-Linear Composites Under Imperfect Contact Condition" Juan Carlos LOPEZ-Realpozo, R. Rodríguez-Ramos, J. Bravo-Castillero, R. Guinovart-Díaz, Federico J. Sabina, Raúl Martínez Rosado, G. A. Maugin (Cuba)

"Temperature-Dependent Fracture Performance of Bond Joints Between Metal and CFRP Laminate" Jianmei HE, Takayuki Shimoda (Tsukuba Space Center, Japan)

"Influence of the Temperature on the Parameters of Creep of a Composite Materials" A. KOUADRI-BOUDJELTHIA (Univ.H.B., Chelf, Algeria), A. Bouabdallah (Univ.Sci.Tech., Bab Ezzouar, Algeria), A. Ghouli (Univ.H.B., Chelf, Algeria)

"Design of Actuators Consisting of Multi-Dimensional NiTi Shape Memory Alloy Elements Harnessing the Shape Memory Effect" Oscar PHILANDER, G.J. Oliver, Bohua Sun (Cape Peninsula U.T., S. Africa) chair

"Effect of Fiber on Bending Creep Properties of Carbon Fiber Reinforced Poly(Ether-Ether-Ether)" Yukiko Kawabata, Satoshi SOMIYA (Keio U., Japan)

"An Internet Platform for Composite Thermal Conductivity Prediction with Analytical and Finite Element Methods" Yibin XU, Masayoshi Yamazaki, Koichi Yagi (Nat.Inst.Mat Sci, Japan) Tues-Friday

Tuesday 4:50PM-7:50PM Room Guezala

Session 7c GENERAL 5

Chairs: L. Lapcik, A.N. Shuaib, V.A. Bambole, D.A. Bond

"Effect of the Oxidative Plasma Surface Treatment on Artificial Ageing of Synthetic Polymer Joints" Lubomir LAPCIK, B. Lapčiková, M. Lehocký, D. Fojtu (Tomas Bata U.in Zlin, Czech Rep.) DISTINGUISHED Lect. 40 min

"Wear Features of Tin Coated Hss Drills Used In Machining Kevlar® 49 Composites" Abdel N. SHUAIB, Faleh Al-Sulaiman, F. Hamid (King Fahd U.Pet.Min,Dhahran, Saudi Arabia) chair

"Evaluation and Development of the Quickstep Out-of-Autoclave Composites Processing Method" David A. BOND, Alan Nesbitt (U. Manchester, UK), Victoria Coenen (Hurel-Hispano Ltd, Canning Vale, Western Australia), Dale Brosius (Quickstep Tech., Canning Vale W. Australia)

"The Influence of Closed -Die Hot Forging of Al-Cu-Si, Steel and Ni-Al PM Preforms on the Properties and Structure of the Products" Stefan SZCZEPANIK, K. Piatkowska, B. Wisniewski (AGH Univ., Krakow, Poland)

"Effect of Coupling Agent-Titanates on Fly Ash Filled Polypropylene" V.A. BAMBOLE, H. Raghu, Rahul Mahajan, P.A. Mahanwar (U.Inst.Chem.Tech., Mumbai, India) chair

"Determination of Physico-Chemical Properties of Agar Films Subjected to Solar Degradation" Daniel ROBLEDO, Tomas Madera, Jose Antonio Azamar, Patricia Quintana, Yolanda Freile-Pelegrin (Unidad Merida, Yucatan, Mexico)

"Gel Form of Matter as a Foundation of Materials Engineering Elements" Barbora LAPCIKOVA, Lubomir Lapcik, Jr., M. Surynek, M. Juricka (Tomas Bata U., Zlin, Czech Rep.)

"Intelligent Process Control for Liquid Composite Moulding" George MAISTROS, Nikos Niakas (Inasco Hellas, Athens, Greece), Nikos Pantelelis (Nat.T.U. Athens, Greece)

"Numerical Simulation of Thick-Walled Cylindrical Tubes and Rodes Pultrusion" Alexander SAFONOV, Alexander Khayretdinov (ApATeCh, Moscow, Russia)

Tuesday 4:50PM-7:50PM Room Acaymo

Session 7d MAGNETIC 5

Chairs: G.K. Toworfe, I. Sokolov, B. Weglinski, J. Pflieger

"Innovative Method of Improving Dielectromagnetics Properties" Dominika Gaworska, Jaroslaw Koniarek, Bogumil WEGLINSKI (Wroclaw U.T., Poland)

"Characteristics of Spreading Droplets" Haim TAITELBAUM (Bar-Ilan U., Israel) Tues-Thursday

"Wavelength-Selective Laser Fragmentation of Ag Nanowires, Nanorods and Nanoparticles in Aqueous Ambient" Jiri PFLEGER, O. Dammer, B. Vlekova (Inst.Macromolecular Chem., Prague, Czech Rep.)

"On Modeling Strain-Induced Nanoscale Phase Transitions in Colossal Magnetoresistance Manganites" Paolo Cermelli, Paolo PODIO-GUIDUGLI (U. Roma Tor Vergata, Italy) chair

"Effect of Calcium Phosphate Coating Induced by Functionalized Self-Assembled Silane Monolayers on Mc3t3-E1 Osteoblast Cell Function" George K. TOWORFE (U. Pennsylvania)

"Optical Properties of ZnO Nanocrystals Embedded in KCl Matrix" Madani SAMAH, M.A. Belkhir (U. Bejaia, Algeria), A. Chergui (U. Setif, Algeria)

"Magnetic and Transport Properties of Polycrystalline Zn_{1-x}Fe_{3-x}O₄" Fengming ZHANG, Zhonglin Lu, Shandong Li, Xingchong Liu, Wenqin Zou, Youwei Du (Nanjing U., China)

"Synthesis of Uniform Nanostructured Colloids for Nanocomposites" Igor SOKOLOV, Yaroslav Kievsky (Clarkson U., Potsdam, NY)

"Magnetic Properties of Nanoparticles with Core/Shell Structure" Y.W. DU, N.J. Tang, H.Y. Jiang, X.S. Liu, W. Zhong (Nanjing U., China)

"Composites with Conductive Properties" Lars FROMMANN (Clausthal-Zellerfeld, Germany)

"Material Analysis of Polymer Blends With Low Melting Metal Alloys" Walter Michaeli, Tobias PFEFFERKORN (RWTH, Aachen, Germany)

"Gilbert Damping Constants in Fe-Co-Ni and Co₂MnAl Alloy Films" T. MIYAZAKI, T. Wakitani, R. Yilgin, S. Yakata, M. Oogane, Y. Ando (Tohoku U., Japan) Tues-Friday

"Control of Crystal Preferred Orientation of ZnO Thin Films By Combinatorial Sputter Coating System" Masahiro GOTO, Akira Kasahara, Masahiro Tosa (Nat Inst. Mat.Sci., Tsukuba, Japan) Tuesday-Friday

Wednesday KEYNOTE LECTURES 8:00AM-10:00AM Room Nivaria

"Experimental and Numerical Studies of Penetration into Confined Particulate Composite Materials"

Angel ARIAS, P. Forquin, R. Zaera, J. López-Puente, Carlos Navarro (Carlos III U. Madrid, Spain)

Wednesday KEYNOTE

"Titanium/MEMS/NEMS" Noel C. MacDONALD (UC Santa Barbara) KEYNOTE

"Role of Flow Simulation for Design, Optimization and Control of Liquid Composite Molding Processes" Suresh ADVANI, Jeff Lawrence, Pavel Simacek (U. Delaware) Wednesday KEYNOTE

10:00AM-10:30AM coffee break

Wednesday 10:30AM-12:50PM Room Nivaria

Session 8a NANO 8

Chairs: E. Benko, A.M.K. Esawi, A. diCarlo, J. Ebothe

"From Nanopowders to Bulk Parts-the Route towards Application"

Amal M.K. ESAWI (American U. Cairo, Egypt) chair

"Interface Roughness of Nanostructured Nickel Electrodeposits Grown on Copper Substrate" Jean EBOTHE, L. Nzoghe-Mendome (U. Reims, France)

"Multiwalled Carbon Nanotubes as Torsional Springs" Antonio diCARLO (U. Roma Tre, Italy) chair

"Femtosecond Laser Production of Silicon Nanoparticles and Metal Surfaces Having Nanostructures

that are Broadband Absorbers" Dennis R. ALEXANDER, David Doerr, Neha Singh, Qi Peng, John Schiffern (U. Nebraska-Lincoln) INVITED 30 min

"The Bulk Dense Barium Titanate Nano-Ceramics Prepared by a Novel Two-Step Sintering" Xiaohui WANG, Xiangyun Deng, Longtu Li (Tsinghua U., China)

"Thermodynamical Study of the Al₂O₃-TiO₂ Nanosystems" Ewa BENKO (Inst.Metal Cutting, Krakow, Poland), I.G. Cano, S. Dosta, J.R. Miguel, J.M. Guilemany (U. Barcelona, Spain) chair

"Aln-Tin Nano Thin Film Material Characterization Through 3-D Non-Linear Finite Element

Modeling" Rahul GUPTA, Cindy K. Waters, Ajit D. Kelkar, William J. Craft, J. Sankar, D. Kumar (N.Carolina A&T St.U., Greensboro)

Wednesday 10:30AM-12:50PM Room Plataneras

Session 8b MMC 2

Chairs: M.A. Taha, J.M. Jeong, J.T. Zhang, J.W. Park

"Workability (Up-Set Test) of Aluminum Matrix-SiC and Al₂O₃ Particulate Reinforced Composites Prepared by Casting and Powder Metallurgy" Mohamed A. TAHA, N.A. El-Mahallawy, A.M. El-Sabbagh (Ain-Shams U., Egypt),

M. Abdel-Hamid (Zagazig U., Egypt), M-F. Salah (Arab Ind.Org.), H. Palkowski (TU Clausthal, Germany) Tues-Wednesday

"Deformation Analysis of the Metal Composite Extrusion" Jong-Min JEONG, Jung-Han Ok, Dong-Hwan Jang (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea), Beong-Bok Hwang (Inha U.)

"A Numerical and Experimental Analysis on Forming Limit of AA 3105 in Radial Extrusion Process" Jae-Woo PARK, Hoon-Seo Koo, Kyung-Ho Min, Beong-Bok Hwang, Beong-Du Ko (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea), Dong-Hwan Jang (Inha U.)

"Deformation Analysis on AA 2024 Aluminum Alloy In Forward and Backward Can Extrusion Process" Ji-Hoon SHIM, Dong-Hwan Jang, Jung-Han Ok, Young-Ha Lee, Byoung-Soo Ham, Beong-Bok Hwang (Inha U., Korea)

"An Investigation of the Stress-Strain Behavior of Ceramic Particle Reinforced Metal Matrix Composites at High Strain Rate" JiangTao ZHANG, QingJie Zhang, LiSheng Liu (Wuhan U.T., China)

"The Effect of Surface Roughness to the Corrosion Behavior of Al 2009/SiCW" J.B. SHAMSUL, M.N. Mazlee, D.S. Hazimma, K. Hussin (Northern Malaysia U.)

"Effect of Composite Alkali Addition on Some Thermodynamic Properties of Aluminosilicate Glasses" Moo-Chin WANG, Chih-Wei Cheng (Kaohsiung U.App.Sci., Kaohsiung), Ping-Yu Shih (Nat.United U., Miaoli)

"Problem of Corrosion in Spacecraft" Monika BUBACZ, Sofia Martinez-Vilarino, David Hui, Leo Daniel (U. New Orleans)

Wednesday 10:30AM-12:50PM Room Guezala

Session 8c BIO 3

Chairs: M. Iwahara, K. Wakasa, L.M. Zou, K. Takemura

"Development of a Gradient Magnetic Field Generator for Collecting the Biomaterials" Masayoshi IWAHARA, Sotoshi Yamada, Wataru Maeda (Kanazawa U., Japan)

"Strength and Effect of Surface Treatment for Bio Composite using Natural Fibers" Kenichi TAKEMURA(Kanagawa Univ.,Japan) DISTINGUISHED lecture, 40 min

"... Bio-Composites" Keiichi TORIMITU(NTT,Japan)

DISTINGUISHED Lecture 40 min

"Structure and Properties of Anesthetic Fiber with Bioactivity"

Liming ZOU, Jianhua Ni (Donghua U., Shanghai, China)

"Application of Colloid Gold in Bioengineering" Long JIANG, Tao Liu, Hui Lin Rong (Inst.Chem., Beijing, China)

"Model to Determinate Useful Live in Total Hip Prosthesis" Edison GONCALVES, Gilberto Garcia, Jose Valin Rivera, Raimundo Nonato Pinheros (Manaus, Brazil)

"Influence of Bone Density in the Useful Live in Total Hip Prosthesis" Gilberto GARCIA, Edison Gonçalves, Jose Valin Rivera, Jose Luiz Sansone (Amazonas, Brazil)

"Application of Sub-Micrometer Polymer Gratings Generated by Two-Beam Interference in Surface Plasmon Resonance Based Bio-Sensors" Maria CSETE, V. Megyesi, K. Osvay, Zs. Bor (U. Szeged, Hungary) Wed-Friday

Wednesday 10:30AM-12:50PM Room Acaymo

Session 8d CHEMISTRY 2

Chairs: K.C Hsu, C. Dubois, A. Prado, N. Bourmada

"A Two-Dimensional Model of the Nitrogen Oxides Concentration Profile in Atmosphere" R. HAMZI, N. Bourmada, A.Djebaili, H. Londiche (U. Batna, Algeria)

"One-Dimensional Model of the Coupling Between Chemical Kinetics and Diffusion:Case of Nitrogen Oxides" R. Hamzi, N. BOURMADA, A.Djebaili (U. Batna, Algeria), H. Londiche (France)

"Dispersion Properties of Amphoteric Polymer in Batio₃ Colloids" Kung-Chung HSU, Chin-Hao Chen (Nat.Taiwan Normal U., Taipei) Mon-Wed

"Core Size Effect of Monolayer-Protected Colloids on Chemiresistor Sensors: Toward Achieving Highly-Sensitive Electronic Nose Devices" Hossam HAICK, Nathan S. Lewis (Cal Tech., Calif.) Friday afternoon

"Morphological Changes of Epoxy Matrixes for Composites by Photo-Oxidation/Hydrolysis" Claude DUBOIS (U. Franche-Comte, France), Lyonel Guyot (CEA Valduc, France), Nicolas Rouge (SERAC CME, France)

"Preparation of Composite of Mg-Al Layered Double Hydroxide-Organic Acid Anions Intercalated in the Interlayers for the Uptake of Organic Contaminants from Aqueous Solution" Tomohito KAMEDA, Masami Saito, Shingo Saito, Yoshiaki Umetsu (Tohoku U., Japan) Mon-Wednesday

"Introduction of Phenyl Sulfide as a Safety-Catch Linker for Solid Phase Organic Synthesis" Osamu SHIMOMURA, Kosuke Tayama, Ryoki Nomura (Osaka I.T., Japan) Tues-Wed

Wednesday 1:50PM-4:30PM Room Nivaria

Session 9a NANO 9

Chairs: M. Amici, I. Hussainova, M. Wojcik, S. Berger

"Fabrication and Characteristics of Thin Composite Films Made of Nano-Ferroelectric Domains

Inside a Highly Dense Array of Alumina Nano-Pores"

Shlomo Berger, D. Yadlovker (Technion, Israel) INVITED 30 min, chair
"Physical Properties of Hybrid Nanostructured Materials: the Case of MMA-POSS Copolymers" Marco AMICI, Stephane Bizet, Jocelyne Galy, Jean-François Gerard (INSA Lyon, France)

"Microstructural Design of Ceramic – Metal Composites for Tribological Applications".

Irina HUSSAINOVA (Tallinn U.T., Estonia)

"Formation of Nanocrystalline Silicon Quantum Dot Arrays" Atsushi Tanaka, Gento Yamahata, Yoshishige Tsuchiya, Hiroshi Mizuta, Shunri ODA

(Tokyo Inst.Tech.) INVITED 30 min

"Low Temperature Formation and Device Application of Sige Nano-Crystals on Insulating Films" Masanobu MIYAO, Hiroshi Kanno, Taizoh Sadoh (Kyushu U., Japan) Wed, Thurs

"Glass Transition Characterization of PMMA Homogeneously Loaded With Silica Particles" Juan GONZÁLEZ-IRÚN Rodríguez, David Hui (U. New Orleans), Ramon Artiaga (U. Coruna, Spain), Luis M. Liz-Marzán (U. Vigo, Spain)

"Nanostructures on Titanium Surfaces Produced by Micro-Plasma" Ulrich BECK, R. Lange, H.G. Neumann (U. Rostock, Germany)

"Modelling of the Process of Changing of Nano Structure of Modified Polymer Fibres by Diffusion"

Mariusz WOJCIK (AGH U. Sci Tech., Cracow, Poland), David Hui (U. New Orleans) chair

Wednesday 1:50PM-4:30PM Room Plataneras

Session 9b MATH 6

Chairs: U. Weber, P. Cortes, C.M. Mota Soares, S. McKown

"Numerical Determination of Parameterised Failure Curves for Ductile Structural Materials" Ulrich WEBER, Ashok Mohanta, Siegfried Schmauder (U. Stuttgart, Germany)

"Structure-Properties Relations in High Temperature Fibre-Metal Laminates" Pedro CORTES, Wesley J. Cantwell (U. Liverpool, UK)

"Scaling Effects of Curv(TM)/Aluminium Based Fibre/Metal Laminates Subject to Static and Low Velocity Impact Loads" Simon McKOWN, Wesley Cantwell (U. Liverpool, UK)

"Non Destructive Numerical-Experimental Parameter Estimation Method for Active Laminated Structures" A.L. Araujo, C.M. MOTA SOARES, J. Herskovits (Inst. Superior Tec., Lisboa, Portugal) Mon, Tues

"Stress Distribution Caused by Anti-Phase Periodical Curving of Row Neighbouring Fibers in a Composite Material Under Geometrical Non-Linear Statement" S.D. Akbarov, Resat KOSKER, Y. Ucan (Yildiz T.U., Istanbul, Turkey)

"The Influence of the Finite Initial Strain-State to the SIF of Mode I at the Crack Tips in a Strip" Surkay D. AKBAROV, A. Turan (Yildiz T.U., Istanbul, Turkey)

"Near-Surface Stability Loss of the Stratified Visco-Elastic Half-Space in a Bi-Axial Compression"

Surkay D. Akbarov, R. TEKERCIOGLU (Yildiz T.U., Turkey)

"Assessment of Constitutive Behavior in Discontinuous Composite Using Analytical Approach" Hong-Gun KIM (Jeonju U., Korea)

Wednesday afternoon

Wednesday 1:50PM-4:30PM Room Guezala

Session 9c GENERAL 6

Chairs: N. Pantelelis, R. Vaidyanathan, G.W. William, D.S. McLachlan

"A New Concept for Low Cost Composite Trailer" Nikos PANTELELIS, Thomas Vrouvakis (N. Kioleides SA, Athens, Greece), Konstantinos Spentzas (Nat. T.U. Athens, Greece)

"Multi-Functional Composites – Fabrication and Properties" Anthony C. MULLIGAN, R. Vaidyanathan, C. Bischl, J Campbell, M. Patterson (Advanced Ceramics Res., Tucson, AZ), S. Yarlagadda, S. Andersen, J. Gillespie, Jr. (U. Delaware)

"Mechanical and Thermal Properties of Water-Soluble Tooling Materials for Polymer Composite Materials"

Ranji VAIDYANATHAN, J. Campbell, C. Bisch, B. Williams, K. Bossert (Adv. Ceramics Res., Tucson, AZ), S. Yarlagadda, J. Gillespie Jr. (U. Delaware) chair

"Multi-Fiber Unit Cell for Prediction of Residual Stresses of Continuous Fiber Metal Matrix

Composites" Gergis W. WILLIAM (W. Virginia U.)

"Accurate Separation and Analysis of Impedance Spectroscopy Arcs for Ytria Stabilized

Zirconia" Godfrey Sauti, David S. McLACHLAN (U. Witwatersrand, S. Africa)

"Effects of Moisture Absorption on the Adhesion Strength of Aluminum Filled Epoxy Adhesive" Ramazan KAHRAMAN (King Fahd U., Pet. Min., Dhahran, Saudi Arabia) chair

"Ghenesys Extended Pn to Modeling Mechatronic Systems" I. BENITEZ, G. Del Pino, A. Sudriá, J. R. Silva, E. Avila, A. Infante, M. Farias, D. Guzmán (Manaus, Brazil)

Wednesday 1:50PM-4:30PM Room Acaymo

Session 9d MAGNETIC 6

Chairs: A.K. Schaper, L. Gangloff, A. Medvids, R. Hull

"Nanoscale Fabrication and Three-Dimensional Characterization with Focused Ion Beams" Robert HULL (U. Virginia) INVITED 30 min, Wednes-Thursday

"A New Approach of Nanolithography: Direct Modification of Electrical and Magnetic Properties in Magnetic Nanostructures using AFM" Yasushi TAKEMURA (Yokohama N.U., Japan), Jun-ichi Shirakashi (Tokyo U. Agricul. & Tech., Japan) INVITED 30 min Tues, Wed

"Electron Microscopy and Diffraction Analysis of Liquid Crystal-Containing Uniaxial Nanostructures" Andreas K. SCHAPER (Philipps U., Marburg, Germany), Masaki Tsuji (Kyoto U., Japan) chair

"Carbon Nanotube Field Emitter Arrays For Microwave Applications" Kenneth B.K. Teo, Laurent GANGLOFF (U. Cambridge, UK), Eric Minoux (Orsay, France), Ludovic Hudanski, Franck Peauger (Velizy-Villacoublay, France), Jean-Philippe Schnell, Pierre Legagneux, Dominique Dieumegard, Gehan A.J. Amaratunga, William I. Milne

"Optical Properties of Nanohills Created on a Surface of Ge by Laser Radiation" Arturs MEDVIDS, Igor Dmitruk, Pavels Onufrijevs, Talivaldis Puritis, Iryna Pundyk (Riga T.U., Latvia)

"Generation of New Nanomaterials by Thin Film Processing by Interfering Femtosecond Laser" Yoshiki NAKATA, T. Okada (Kyushu U., Japan) INVITED 30 min

"Non-Destructive Evaluation of Round Rods of Low-Carbon Steel SM400B Using a Scanning Hall-Sensor Microscope" Akio OOTA (Tooyohashi U.T., Aichi, Japan) Monday-Wednesday

Wednesday 4:30PM-4:50PM short break

Wednesday 4:50PM-7:50PM Room Nivaria
Session 10a MISCELLANEOUS SESSION

"Microhardness and Pore Structure of Hardened Cement Paste"
Sylva MODRY, Zdenka Bazantova, Ales Pleskot, Leonid Kozak (Czech T.U., Prague)

Wednesday 4:50PM-7:50PM Room Plataneras

Session 10b TEXTILE 1

Chairs, A. Beyle, B.C. Kang, Y.H. Rho, K. Joo

"Models for Analysis of Effective Properties of Braided Composites" Andrey BEYLE (Pittsburg St.U., Kansas)

"Impact Analysis of 3-D Braided Glass Fiber Reinforced Composites" Kiho JOO, Hansun Ryou, Tae J. Kang, Kwansoo Chung (Seoul Nat.U., Korea)

"Light-Weight High-strength Heat-Resistant 3-D Knitting Materials" Takeshi ISHIHARA (Seeda Corp, Tokyo, Japan), Hirohide Ishihara (St. Mary's Coll., Morge, Calif.)

"Modified Air Texturising Process for Hybridization of Different Reinforcement Filament Yarns" Bok-Choon KANG, Jung-Min Seo, Dong-Hwan Jang, Byoung-Soo Ham, Beong-Bok Hwang, Hyung-Wook Koo, Chathura N. Herath (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea)

"Experimental Analysis of Geotextile Separator in the Geosynthetic Composite" Yong-Hwan RHO, Han-Yong Jeon (Inha U., Korea), Dong-Hwan Jang (Ulsan Auto, Korea), Beong-Bok Hwang (Inha U.), Joong-Yeon Lim (Dongguk U., Korea)

"Mechanical Properties, AOS, Permittivity and Ultraviolet Stability for Waste Landfill

Application of PVA Geotextile/HDPE Geomembrane Composites" Yong-Bum JIN, Jung-Han Ok, Hoon-Seo Koo, Boeng-Bok Hwang (Inha U., Korea), Jae-Young Kim (Seoul N.U., Korea), Yoon-Joong Hwang (CSIRO, Australia), Han-Yong Jeon (Inha U.)

"Microscopic Evaluation of Commingling-Hybrid Yarns" Jong-Kwang PARK, Yong-Hwan Roh, Chathura N. Herath, Jung-Han Ok, Byoung-Soo Ham, Jung-Min Seo, Bok-Choon Kang (Inha U., Korea)

"Breaking Elongation Properties of Commingling-Hybrid Yarns" Yeong-Sub LEE, Jung-Min Seo, Dong-Hwan Jang, Beong-Bok Hwang, Chathura N. Herath, Bok-Choon Kang (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea)

"An Analysis on the Tensile Strength of Hybridized Reinforcement Filament Yarns by Commingling Process" Chathura N. HERATH, Jung-Han Ok, Dong-Hwan Jang, Young-Ha Lee, Beong-Bok Hwang,

Bok-Choon Kang (Inha U., Korea), Joong-Yeon Lim (Dongguk U., Korea)

Wednesday 4:50PM-7:50PM Room Guezala

Session 10c BIO 4

Chairs: B. Nebe, K. Wakasa, A. Tiba, S. Suzuki

"Developments and Current Status of Dental Composites" Shiro SUZUKI (U. Alabama-Birmingham) DISTINGUISHED lecturer, 40 min
Wednesday

"Cellular Interactions with Structured Titanium Surfaces" Barbara NEBE, Frank Lüthen, Regina Lange, Axel Baumann, Joachim Rychly, Ulrich Beck (Rostock, Germany) INVITED 30 min, Tuesday-Friday

"Nanoanalysis of Adhesion Strength in New Generation Biomaterials" Kunio WAKASA (Hiroshima U., Japan) invited 30 min

"Hydroxyapatite Precipitation on the Surface of High Purity Silica Matrix: Preparation of a Biodegradable Composite Filler and Reinforcement Scaffold" Mark B. Lyles, Michael J. Gregory, Amer TIBA (Naval Inst., Great Lakes, IL)

"Nano-Structure of Resin-Dentin Interface" Naotake AKIMOTO, Yasuko Momoi (Tsurumi U., Japan), Shiro Suzuki (U. Alabama-Birmingham) Wednesday

"Optimal Surface Treatment of a Semi-Precious Alloy for Bonding Veneering Composite System" Narimichi HONDA, Hirofumi Imai, Masuji Tsuchikawa, Yasukazu Saimi (Sun Medical Co., Shiga, Japan), Shiro Suzuki (U. Alabama-Birmingham), Kozou Tomota (Tohoku U., Japan) Wednesday

Wednesday 4:50PM-7:50PM Room Acaymo

Session 10d INFRASTRUC 2

Chairs: A. Parvin, K. Ari, M.H. Barros, S.H. Alsayed

"Seismic Strengthening and Upgrading of Beam-Column Joints Using Different Schemes of CFRP Sheets" Saleh H. ALSAYED, Tarek H. Almusallam, Yousef A Al-Salloum (King Saud U., Saudi Arabia)

"Load Cycle Sequence Influence on Hysteresis Loop Response of FRP-Strengthened Reinforced Concrete Members" Azadeh PARVIN, Shanhong Wu (U. Toledo, OH)

"Concrete Composite Structures and Analysis of Anisotropic Composites" Refat El-SHEIKHY, M. Naka (Osaka U., Japan)

"A Comparative Experimental Investigation of Reinforced-Concrete Pipes and Steel Fiber

Reinforced Concrete Pipes Under Three-Edge-Bearing Test"

Kamuran ARI, Okan Karahan, Fatih Altun, Tefaruk Haktanir (Erciyes U., Kayseri, Turkey)

"Recycling of Cement Kiln Dust and Demolished Waste in Road Construction" A.M.AMIN, Z.S. Houseen (Housing & Building Res.Cen., Cairo, Egypt)

"A New Strategy for Improvement of Bond Strength of GFRP Rebars for Civil Engineering Applications" Jongsung Sim, Do Young Moon, Cheolwoo PARK, Hongseob Oh (Hanyang U., Ansan, Korea)

"Environmental Factors Affecting the Mechanical Properties of Epoxy Composites for Structural Repair and Strengthening of Concrete Structure" S. COVAVISARUCH, B. Kamponpan (Chulalongkorn U., Thailand)

"Analysis of RC Beams under Increasing Load with EC2-2001 Equation" M. Helena BARROS, C Oliveira (U. Coimbra, Portugal)

Thursday 8:00AM-10:20AM Room Nivaria

Session 11a NANO 10

Chairs: B.Q. Chen, F. Karoui, A. Menon, Y. Pogorelov

"Volume Fraction-Property Relationships in Polymer-Clay Nanocomposites" Biqiong CHEN, Julian R.G. Evans (U. London, UK)
"Specularity in High Performance Nano-Oxide Layer Spin Valves" J.M. Teixeira, J. Ventura (IFIMUP, Portugal), Yuri POGORELOV (U. Porto, Portugal), J. B. Sousa (IFIMUP, Portugal), P.P. Freitas, A. Veloso (INESC/MN, Lisbon, Portugal)

"Dynamic and Non-linear Finite Element Modeling of the Strain Relaxation Mechanism and Thermal Stability of Strain in Strained-Si/SiGe/Si(001) Heterostructures for Nanoscale MOSFET Devices" Faouzia KAROUI (N.Carolina St.U.)

"Magnetic Sensors for Nanobead Detection with Applications in Proteomics" Aric MENON (TU Denmark)

"Polymer/Clay Nanocomposites" Josef Simonik, Alena KALENDOVA, L. Kovarova (Tomas Bata U., Zlin, Czech Rep.) Mon-Thurs

"Comicellization in Solutions of Block Copolymer Mixtures: Equilibrium Concentrations and Nanoparticle Structures" Cestmír KONAK, Josef Pleštil (Academy Sci, Prague, Czech Rep.), Jyotsana Lal (Argonne N.L., IL) Mon-Thurs

"Hardness of Nano-Structured TiO₂ as a Function of Grain Size in the Nano-Regime" Kook D. PAE, Evan A. Galipeau (Rutgers U., NJ) Monday-Thursday

"Growth and Nanostructuring of Aligned Wires in Mg-MgO-Mg₂Ni Composite by Rapid Cooling" Nangang MA (Huazhong U.Sci.Tech., Wuhan, China), X.S. Tong (Jianhan U., Wuhan, China), J. Tan, J. Zhang, X.J. Wang, C.S. Xie, Y.P. Wu, K. Cui (Huazhong U.Sci.Tech.)

Thursday 8:00AM-10:20AM Room Plataneras

Session 11b HARSH 1

Chairs: V. Diaz, T. Uenoya, M. Guru

"Design, Manufacturing and Testing of a Reusable CFRP Intertank Demonstrator" Victor DIAZ (EADS CASA, Madrid, Spain), Guy Ramusat (European Space Agency, Paris, France)
"Thermography and Thermographic NDT/E of Composite Materials in Japan-An Overview" Toshiyuki UENOYA (Tech.Res.Inst. Osaka Pref., Japan)

"Production of Urea-Formaldehyde Based Composite Particle Board From Apricot Shell With Fly Ash Addition as Flame Retarder" Metin GURU, Suleyman Tekeli (Gazi U., Turkey)

"Multifunctional Materials: Applications and Potential Economic Impact" Leo Daniel, David Hui (U. New Orleans), Chris IBEH (Pittsburg St.U., Kansas)

"Helium Permeability in Nanoclay Modified Polymers" Sofia MARTÍNEZ-Vilariño, David Hui (U. New Orleans), Sandi G. Miller (NASA Glenn, OH), Leo Daniel (U. New Orleans)

"Permeability of Helium Through Aramid Fiber Papers Coated with Unsaturated Polyester" Monika BUBACZ, David Hui, Leo Daniel (U. New Orleans)

"Optimization and Sizing of Thermal Protection System for Reentry Vehicles" Stefano BIETTO, David Hui, Leo Daniel (U. New Orleans)

Thursday 8:00AM-10:20AM Room Guezala

Session 11c GENERAL 7

Chairs: L. Ratke, M. Stephan, P. Kulu, F.J. Blanco-Barro

"Novel 3D Microfluidic Polymeric Technology for Lab-on-a-Chip Applications" Francisco J. BLANCO-BARRO, M. Aguirregabiria, J. Berganzo, J. Elizalde, M.T. Arroyo, M. Tijero, J.M. Ruano-Lopez, I. Aramburu, K. Mayora (IKERLAN, Arrasate-Mondragon, Spain) INVITED 30 min, Wed-Thursday

"Attenuation Studies on Electrical Time Domain Reflectometry (ETDR) Composite Sensors for Infrastructure Damage Monitoring" Ayodele ABATAN (Clark Atlanta U., GA)

"Frequency Doubling Composite Aerogels" S. Lisinski, Lorenz RATKE (German Aero. Cen., Cologne), Dominik Schaniel, Theo Woike (U. Cologne, Germany)

"Molding Process of Low Pressure Sheet Molding Compounds" Zhi-Xiong HUANG, Hao Yu, Qi-Lin Mei, Yan Qin (Wuhan U.T., China)

"Real-Time Control of Agglomerates and Particles During Extrusion Processing of Polymer Composites" Michael STEPHAN, S. Grosse (Leibniz Inst., Dresden, Germany)

"In Situ Studies of Low Temperature Liquid Phase Sintering" O.A. Shlyakhtin, Young-Jei OH (Korea Inst.Sci.Tech., Seoul, Korea)

"Characterization of Structure and Modelling of Wear of Composite Powder Materials and Coatings With Multimodal Reinforcement" Priit KULU, Renno Veinthal (Tallinn U.T., Estonia)

"Micro- and Macro-Geometrical Parameters Influence on Stribeck Curve for the Piston Ring" V. D'Agostino, A. Ruggiero, Adolfo SENATORE, M. Pappalardo (U. Salerno, Italy)

Thursday 8:00AM-10:20AM Room Acaymo

Session 11d INFRASTRUC 3

Chairs: O. Corbi, A. Baratta, Y.S. Cho, S.K. Al-Bahar

"FRP Seismic Retrofitting of Masonry Constructions" Alessandro Baratta, Ottavia CORBI (U. Naples Federico, Italy) chair

"Experimental Evidence of Beneficial Effects of Retrofitting of Masonry Walls by C-Fibre Composites" Alessandro BARATTA, Ileana Corbi (U. Naples Federico II, Italy)

"Prediction of Concrete Compressive Strength Using Non-Destructive Tests" Young-Sang CHO (Hanyang U., Korea)

"Effects of Steel Fiber Addition on Mechanical Properties of Concrete" Fatih Altun, Hamdi ELCUMAN, Kamuran Ari (Erciyes U., Kayseri, Turkey)

"Evaluation of Kuwaiti Local Raw Materials For Improving Clinker Quality Production" Suad Kh. Al-BAHAR, Tilak V. Bogahawatta, Abdullah Kh. Al-Enezi, Sadikah Gh. Ali, Hassan Kh. Kamal, Sharifa B. Al-Fadala, Ruba T. Al-Foraih (Kuwait Inst.Sci.Res.)

"Recycling of Some Ceramic Industrial Wastes in Clay Bricks Industry" N.G. Abdel El-GHAFOUR, H.S. Hassan, H.H. Assal (Housing Building Res.Cen., Cairo, Egypt)

"Architectural Desing Impact of FRP Composites: Historic Aspects" Zouheir HASHEM (U. Nevada Las Vegas)

Thursday 10:20AM-10:50AM Coffee Break

Thursday 10:50AM-1:10AM Room Nivaria

Session 12a NANO 11

Chairs: I.A. Ibrahim, P. Jena, Y. Yagodzinsky, E.M. Gutman, Qin Hu

"Synthesis, Characterization, and Photocatalytic Activity of Vanadia-Titania-Silica Nanoparticles" Ibrahim A. IBRAHIM, R.M. Mohamed, Adel A. Ismail (Helwan, Cairo, Egypt) Chair

"Design and Novel Properties of Silicon and Gold Based Nanostructures" Puru JENA, Q. Sun, and Q. Wang (Virginia Comm. U., Richmond) INVITED 30 min, chair

"Surface Mechanochemistry of Nano-Materials" E. M. Gutman (Ben-Gurion U., Israel)

"Grating Structures Modulated by Ion Implantation In Fused Silica and Optical Fibers" Qin HU, Martin Zinke-Allmang (U. Western Ontario, Canada)

"Analysis of Nano-Images to be Acquired from Oligonucleotides Libraries" Anna CYSEWSKA-SOBUSIAK, Michal Boltrukiewicz (Poznan U.T., Poland)

"Mechanical and Electrical Properties of CNT/Copper Nanocomposites Processed by Hot Pressing" Yuriy

YAGODZINSKY, Jyrki Romu, Hannu Hanninen (Helsinki U.T., Finland)

Thursday 10:50AM-1:10AM Room Plataneras

Session 12b MATH 7

Chairs: N. Hu, D. Huelsenberg, G. Fernando, B. Zuccarello

"Fibre Optic Acoustic Emission Sensor for Damage Detection in Composites" Gerard FERNANDO (Cranfield U., UK) INVITED 30 min

"Damage Tolerant, Translucent Oxide Fiber/Glass Matrix-Composites". Dagmar HUELSENBERG, P. Fehling (TU Ilmenau, Germany)

"Effects of Matrix Cracks on the Mechanical Behavior of Polymeric Matrix Composites" A. Cirello, B. ZUCCARELLO (U. Palermo, Italy)

"Some Results on the Dynamics of Inflatable Beams" J.-C. Thomas, Z. Jiang, Christian WIELGOSZ (U. Nantes, France)

"Thermal Conductivity of Al₂18Fe+Gd Alloys" M.M. SAFAROV (TTU, Tajikistan), David Hui (U. New Orleans), K.A. Rahmonov (TTU, Tajikistan), I.N. Ganiev (TTU, Tajikistan), L. Kubicar (Inst. Physics, Slovak Republic).

"Three-Layered Composite HMA" Baoshan HUANG, Xiang Shu (U. Tennessee), Guoqiang Li (Louisiana St. U.)

"Modulus-Thermal Expansion Relation: a Possible Factor in Composite Matrix and Anisotropic Applications" R. James ARENZ (Loyola Marymount U., Los Angeles, Calif.) Wed-Thurs

Thursday 10:50AM-1:10AM Room Guezala

Session 12c HARSH 2

Chairs: C. Jama, S. Mouring, C. Jama, Y.A. Ushakov

"Generating Copper Nanodispersion and Studying it as Fire-Retardant" Ye.A. USHAKOV, T.G. Sorina (ApATeCh, Moscow, Russia), D.K. Polyakov, A.P. Korobko (Karpov Inst. Phy. Chem., Moscow), Yu.G. Klenin (ApATeCh)

"Helium Permeability in Nanoclay Modified Polymers" Sofia MARTÍNEZ VILARIÑO, David Hui (U. New Orleans), Sandi G. Miller (NASA Glenn, OH), Leo Daniel (U. New Orleans)

"Experimental Trials of Filament Wound Cryogenic Composite Propellant Tank" Takayuki SHIMODA, Jianmei He (Japan Aerospace Exploration Agency, Ibaraki)

"Fire Retardancy Performance of Cold Plasma Coatings: Evidence of Synergism with Nanoclay

Polymers" Charaf JAMA, R. Delobel (Ecole Nat. Chimie Lille, France) Tuesday-Friday

"The Use of High-Resolution Acoustic Microscopy for Assessing the Integrity of Composite

Structures" Sarah MOURING, Anthony Mucciardi, and Gabriel Karpouzian (US Naval Acad., MD) chair

"Evaluation of Epoxy/Clay Nanocomposites for Use in Cryogenic Storage Tanks" Sandi CAMPBELL, Michael Meador, J. Chris Johnston (NASA Glenn, OH), David Hui, Sofia Martinez (U. New Orleans) POSTER

Thursday 10:50AM-1:10AM Room Acaymo

Session 12d MAGNETIC 7

Chairs: D.V.G.L.N. Rao, H.L. Wilkens, F. Iacopi, B. Nikoobakht

"A New Approach for Fabricating Horizontally Grown Semiconductor Nanowires" Babak NIKOOBAKHT, Mark D. Vaudin, Stephan J. Stranick (NIST, Gaithersburg, MD) INVITED 30 min

"Multi-Layered Depleted Uranium and Gold Cocktail Hohlräume for Research in Inertial Confinement Fusion" Heather L. WILKENS (General Atomics, San Diego, Calif.), J. Gunther (Lawrence Liv., Calif.), J.D. Kilkenny, A. Nikroo, M. Mauldin, D.R. Wall, J. Wall, R.J. Wallace INVITED 30 min, chair

"Holographic Data Storage Using Thin Films of Nanomaterials"

D.V.G.L.N. RAO, Pengfei Wu (U. Massachusetts-Boston), Y. Andrew Wang (Ocean Nano Tech., Fayetteville, AR) INVITED 30 min

"Surface Modification of Nanoparticles by Initiated Chemical Vapor Deposition (ICVD)" Karen K. GLEASON (Mass. Inst. Tech.)

"Perspectives on the Characterization of Elastic Properties of Thin Soft Films With Acoustic Techniques" Francesca IACOPI, S.H.

Brongersma (IMEC, Leuven, Belgium), A. Mazurenko (Natick, MA), G. Carlotti (U. Perugia, Italy), K. Maex (Katholieke U., Belgium)

INVITED 30 min, chair

"Study of the Temperature Distribution During Isomerisation

Reaction of Polyacetylene Induced by Laser Effect" Z. Skanderi (U.

Batna, Algeria), L. MESSAI (U. Tebessa, Algeria), A. Djebaili (U. Batna)

"Kinetics of the Isomerization Reaction of Undoped Polyacetylene by Multichannel Raman Spectroscopy" Z. SKANDERI (U. Batna,

Algeria), R. Benakcha (U. M'sila, Algeria), A. Djebaili (U. Batna)

Thursday 1:10PM-2:10PM LUNCH

Thursday 2:10PM-5:30PM Room Nivaria

Session 13a TEXTILE 2

Chairs: H.C. Stadtfeld, C. Jung, P. Sawhney, M. Tunak

"Quantification of Yarn Abrasion in Size-Free Weaving: a New Method Based on a New Concept" Paul S. SAWHNEY (Southern Reg.Res.Cen., New Orleans), Kumar V. Singh, Imtiaz Hossain, Navzer Sachinvala, Su-Seng Pang (Louisiana St.U.) chair

"Fourier Analysis of Woven Composite Structures" Maros TUNAK, Ales Linka (TU Liberec, Czech Rep.)

"3D Visualization of Voids In Woven Composite Structure" Pavel SEJAK, Miloslav Kosek, Bohumila Koskova (TU Liberec, Czech Rep.)

"The Signal Windowing for Image Processing of Woven Composite Structure" Jana SALACOVA (TU Liberec, Czech Rep.)

"Studies on Commingled Yarns for Thermoplastic Composites" R. ALAGIRUSAMY, Vinayak Ogale (Indian Inst.Tech.-New Delhi) Wed-Friday

"Structural Preform-LCM-Parts as Result of a Teamwork of Textile-, Preforming- and Infiltration-Techniques" Hubert C. STADTFELD (Kaiserslautern, Germany)

"Investigation of Optical Losses in Fiber with YAG:Nd Laser Radiation". Pavels ONUFRJEVS, Arturs Medvids (Riga T.U., Latvia)

"Influence Undulation of Yarns on the Rigidity of the Composites" Corinne JUNG, B. Durand (Mulhouse, France) chair

"The Use of Silance Coupling Agents to Improve the Properties of Kaolin/Nylon 6,6 Composites" Martin BUGGY, Ann Sullivan, Ger Bradley (U. Limerick, Ireland)

"Strength Distribution of the Basalt Filaments" Jiri MILITKY, Vladimír Kovačič (TU Liberec, Czech Rep.)

Thursday 2:10PM-5:30PM Room Plataneras

Session 13b MMC 3

Chairs: P. Kivikyto, D.H.L. Ng, T. W. Bochniak, M.A. Taha

"Correlation Between Metal Matrix Composite Structure and Abrasive Wear Performance In Mineral Crushing" Paivi KIVIKYTO-REPONEN (Helsinki U.T., Finland), Jari Liimatainen, Jussi Hellman (Metso Powdermet Oy, Finland), Simo-Pekka Hannula (Helsinki U.T.)

"Workability (Up-Set Test) of Aluminum Matrix-SiC and Al₂O₃ Particulate Reinforced

Composites Prepared by Casting and Powder Metallurgy" Mohamed A. TAHA, N.A. El-Mahallawy, A.M. El-Sabbagh (Ain-Shams U., Egypt),

M. Abdel-Hamid (Zagazig U., Egypt), M-F. Salah (Arab Ind.Org.), H. Palkowski (TU Clausthal, Germany) Tues-Wednesday

"Fabrication of Nanometer-Sized γ -LiAlO₂ Network" T.K. LI, Dickon H.L. Ng (Chinese U. Hong Kong, China)

"Development of Stainless Cast Steel Dispersed With Spheroidal Vanadium Carbide" Teruo TANABE, T. Unezaki, S. Nishiuchi, H. Matsumoto (Kyoto U., Japan)

"Structure of a Multilayer Composite Extruded from Aluminum Foil" Włodzimierz BOCHNIAK, Henryk Dybiec, Feliks Stalony-Dobrzański, Ludwik Błaż, Andrzej Korbel (AGH U. Sci. Tech., Krakow, Poland)

"Thermal Stability of Ultra Fine Grained Cu with Al₂O₃ Nanoparticles Prepared by High Pressure Torsion" Jakub CIZEK, I. Prochazka, M. Cieslar (Charles U., Czech Rep.), R.Z. Islamgaliev, Olya Kulyasova (Ufa State Aviation Tech. Univ., Russia)

"Obtaining of Lead Chloride from Lead-Silver Concentrates by Hydrometallurgical Method" Zumrat H. GAIBULLAEVA., M.M. Saidov (Tajik Tech. U., Tajikistan)

"Growth Studies of Thin Hydroxyapatite Layers Obtained by Pulsed Laser Deposition on Titanium Substrates" Adele CARRADO, S.Joulié, J.Faerber, J.Werckmann (IPCMS, U. Strasbourg, France), L. Barrallier (MecaSurf - ENSAM, Aix en Provence, France), C. Ristoscu, G. Dorcioman, S. Grigorescu, I. Mihailescu (INFLPR, Bucharest, Romania)

"...Fe-Cu Materials System" Mirela-Maria CODESCU (ICPE, Bucharest, Romania) POSTER

Thursday 2:10PM-5:30PM Room Guezala

Session 13c CHEMISTRY 3

Chairs: R.L. Khalfin, I. Safarik, M.A. Prado, M. Safarikova

"Stabilisation of Fiber Compaction Process Using Unique Behavior of Hexagonal Phase in Oriented Ultra-High Molecular Weight Polyethylene" Liron Shavit-Hadar, Rafail L. KHALFIN, Yachin Cohen, Dmitry M. Rein (Technon, Israel)

"Ferrofluid-Modified Lignocellulose Materials and their Possible Applications" Ivo SAFARIK, Mirka Safarikova (Cesk Budejovice, Czech Rep.)

"Magnetic Particles in Biosciences" Mirka SAFARIKOVA, Ivo Safarik (Czech Rep.)

"Effect of Clincker-Puzolane-Gypsum Composition on the Index Work, Ussing ADI Cast Iron Ball Mill" Juan M. delaROSA, Antonio Huerta-Cerdan, Alejandro García-Hinojosa, José G Rivera (UNAM, Mexico)

"Effects of CuSO₄ and Dextrin Reagents at Different pH Values on PbS and ZnS Selective Flotation" Antonio HUERTA-CERDÁN, Juan M. de la Rosa, J. Gensca (UNAM, Mexico)

"Interface Structure, Chemistry and Mechanical Properties of NiAl Composites Reinforced by Continuous Al₂O₃ Fibers" W. Hu, H. Chen, Y. Zhong, G. Gottstein (Aachen U., Germany)

"Preparation and pH-Sensitive Behavior of Soy Protein /PAN Hydrogel Fiber" Lixia GU, Mingli Join, Liwei Yu (Donghua U., Shanghai, China)

"Influence of the Structural Transitions of Micro/Macro Structured Hydrogels Synthesized Under

a Strict Thermal History on the Mechanical Properties" E. Orozco, Mario A. PRADO; R.M. Jiménez; L.C. López; I. Reyes I; S. García; F. Bautista (Centro U. Ciencias Exactas, Ingenierías, Mexico)

"Thermo Oxidative behavior of PEI/GF Polymer Composites" Fahad S. ALMUBADDEL (King Saud U., Saudi Arabia)

Thursday 2:10PM-5:30PM Room Acaymo

Session 13d OXIDE 2

Chairs: J. Nogus, P. Badica, A. Hoffmann, K. Endo, T. Endo

"Superconducting and Non-Superconducting Whiskers in the Bisrcaou System Growth in

MAGNETIC FIELDS OF H=0-10T" P. BADICA, K. Togano, S. Awaji, K. Watanabe (Tohoku U., Japan) INVITED 30 min

"Incommensurate Magnetization Profiles in Complex Oxide

Heterostructures" A. HOFFMANN, S. G. E. te Velthuis (Argonne Nat.Lab., IL), Z. Sefrioui, J. Santamaria (U. Comp Madrid, Spain), M.R. Fitzsimmons, S. Park (Los Alamos N.L., NM), M. Varela (Oak Ridge N.L., TN), G. Campillo, M. E. Gomez, P. Prieto (U.Valle, Cali, Colombia) INVITED 30 min

"Growth and Characterization of Epitaxial Sc₂O₃ Thin Films on Silicon by Molecular Beam Epitaxy for Alternative Gate Dielectric Applications" Lisa F. EDGE, V. Vaithyanathan, D.G. Schlom (Penn St.U.), D. Klenov, S. Stemmer (UC Santa Barbara, Calif.) INVITED 30 min

"Fabrication and Degradation of Manganites/YBCO Double Layers" Tamio ENDO, Masanori Okada, Atsuya Akiba, Hong Zhu (Mie U., Japan), Hirofumi Yamasaki, Kazuhiro Endo (Nat.Inst.Adv.Ind.Sci.Tech., Tsukuba, Japan) INVITED 30 min

"Reactive Sputter Deposition of High Quality Photocatalist and Transparent Conductive Oxide with Very High Rate" Yuzo SHIGESATO (Aoyama Gakuin U., Japan) INVITED 30 min

"Templating Synthesis and Functional Properties of TiO₂-based Inorganic-Organic Nanohybrids" John WANG, A.H. Yuwono (N.U., Singapore) INVITED 30 min

"Electrical Properties of Sintered Bodies Composed of Mn-Co-Ni Cubic Spinel-Type Oxides" Tadashi SASAMOTO (Kanagawa Inst.Tech., Atsugi, Japan), Takashi Yokoyama, Takeshi Meguro, Toru Wakihara, Junichi Tatami, Katutoshi Komeya (Yokohama Nat.U., Japan) SPECIAL POSTER

"High-Quality Oxide Thin Films With Clean Surfaces Suitable for Future Nano-Device Applications" Kazuhiro ENDO (AIST, Ibaraki, Japan), Petre Badica (Bucharest, Romania), Hiroshi Sato, Hiroshi Akoh (CERC, AIST, Ibaraki, Japan) INVITED 30 min

Friday 8:00AM-10:20AM Room Nivaria

Session 14a NANO 12

Chairs: T. Kurz, A.A. Kornyshev, V. Privman, J.C. Lin

"Influence of Inorganic Nanoparticles on the Sol-Gel Transition of the Food Biopolymer Gelatine: Investigations in Kinetics and Thermal Behaviour" Soenke Gramdorf, S. Brodtkorb, L.-G. Fleischer, Tomas KURZ (TU Berlin, Germany) Thurs-Friday

"Investigation of Compression for Composites Filled with Various Nano-Particles" Jin-Chein LIN, M.H.Nien (Northern Taiwan Inst.Sci.Tech., Taipei)

"Mechanism of Growth of Monodispersed Colloids by Nucleation and Aggregation of Nanosize Subunits" Dan Goia, Egon Matijevic., Vladimir PRIVMAN, Igor Sevonkaev (Clarkson U., NY) Wed-Fri

"Statistical Geometry versus Physics and Electrochemistry: Optimizing Composite Fuel Cell Electrodes" Alexei A. KORNYSHEV (Imperial Coll., UK)

"Preparation of Nanosized-Alumina by the Precipitation -Thermal Decomposition Process" Dong-Hong LI, Wang-Xing Li (Zhengzhou Res.Inst., China)

"Formation Mechanism of the Spherical Ni(OH)₂ Microstructure" Xiang-qian SHEN (Jiangsu U., China), Mao-xiang Jing (Changsha, China), Mei-xun Peng (Centre South U., Changsha, China)

"The Test and Application of Silicon-Titanium Aluminum Alloy by Fusion-Electrolysis" Qiaofang YANG, Qingjie Zhao, Lijuan Qi (Zhengzhou Res.Inst., Henan, China)

"Half-Metallic Composite Nanostructures" Bang-Gui LIU (Beijing, China)

Friday 8:00AM-10:20AM Room Plataneras

Session 14b MMC 4

Chairs: J. Niu, M. Gouda, M. Krishna, F. Kolkailah

"Study on Mechanism of in-Site Reinforced Weld of SiCp/Al Composite" Jitai NIU, Guangtao Zhou, Guangming Jin, Muzhen Wang(Harbin I.T., China)

"A Study of Bronze- Microalloyed Steel Composite" M. GOUDA, M.A.R.Gazar (H.T.I., Ramadan City, Egypt) chair

"Composite Casting of the Intermetallic Phase NiAl" Christof DAHMEN, Marcel Rosefort, A. Buhrig-Polaczek (RWTH, Aachen, Germany)

"Monitoring of Hydrogen Generated by Corrosion Reactions of Steel" Ammar ABBASSI, A. Mihi, A. Djebaili (U. Batna, Algeria)

"Effect of Sulphide and Thiourea on Hydrogen Uptake using an Electrochemical Hydrogen Probe" A. Abbassi, Abdel MIHI, A. Djebaili (U. Batna, Algeria)

"Computer Modeling of Aluminum Foams: An Investigation into Thermal Properties of Porous Metals" Faysal KOLKAILAH (Cal Poly, Calif.)

"Overview of Corrosion Issues in Ships" Sofia MARTÍNEZ-Vilariño, Monika Bubacz, David Hui, Leo Daniel (U. New Orleans)

Friday 8:00AM-10:20AM Room Guezala

Session 14c BIO 5

Chairs: S.A.M. Tofail, D.E. Mouzakis, D. Mahajan, H> Podbielska

"Application of Nanocomposites in Biomimetic Hydrogen Production" Devinder MAHAJAN (SUNY Stony Brook, NY and Brookhaven N.L., Upton, NY) chair

"Nanostructure of Sol-Gel Biofilms Doped by Photosensitive Dyes" Halina PODBIELSKA (Wroclaw U.T., Poland)

"Sol-Gel Materials for Fiberoptic Coatings of Applicators for Laser Therapies" Joanna BAUER, Halina Podbielska, Agnieszka Ulatowska-Jarza, Iwona Holowacz (Wroclaw U.T., Poland)

"Origin and Physiological Significance of Bone Piezoelectricity" Syed A.M. TOFAIL (U. Limerick, Ireland) INVITED 30 min

"Effect of Nano-Reinforcement in PMMA/Hydroxyapatite/Montmorillonite Hybrid Bone Cements"

Dionysis E. MOUZAKIS, I. Agallos (U. Patras, Greece), G. Drosos (Naval Hospital Athens, Greece), N. Bouropoulos (U. Patras)

"Biological Strategies for Controlling the Inorganic/Organic Interface in Polymer Nanocomposites"

Xiaowu Fan, Haeshin Lee, Phillip B. MESSERSMITH (Northwestern U., IL) Tuesday-Friday

"Diamond-like Carbon - a Versatile Biomedical Coating" Joe FRANKS (Diameter Ltd., Brunel U., UK)

Friday 8:00AM-10:20AM Room Acaymo

Session 14d INFRASTRUC 4

Chairs: P.F. Mensah, J.M. Methven, H. Wernersson, K. Jackson

"Thermal Stress Analysis of APS, EBPVD, and DVC Thermal Barrier Coatings on a Nickel Based Superalloy" Nalini Uppu, Patrick F. MENSAH, Ravinder Diwan, and Michael Stubblefield (Southern U., Baton Rouge, LA) Wed-Friday

"The Expansion of PU Foams in Vertical Tubes" Jim M. METHVEN, M Athinarayanan (U. Manchester, UK)

"Opportunities for Electroheat in Composites Manufacture" K. JACKSON, J.M. Methven, K. Jamieson (U. Manchester, UK)

"Test Procedure for Creep Prediction of CFRP Structures" Francesco Ascione (U. Rome, Italy), Valentino P. BERARDI, Luciano Feo, Antonella Giordano (U. Salerno, Italy)

"Laminated Floorings- a Large and Challenging Potential for Composites and Nano Technologies" Hakan WERNERSSON (Pergo Europe, Trelleborg, Sweden) chair

"M.I.TRAS (Advanced Materials and Technologies for Special Maintenance of R.C and Prestressed R.C. Road Structures and Infrastructures)" Alessandro LARGO (CETMA, Brindisi, Italy)

"Effect of CFRP Strips on Flexural Strengthening of RC Beams" Salah A. GAWAD-ALY, M.A.N. Abdel-Mooty (Housing & Building Res Cen., Cairo, Egypt)

Friday 10:20-10:50AM Coffee Break

Friday 10:50AM-1:10AM Room Nivaria

Session 15a HARSH 3

Chairs: B. Chen, J. Fuller, J.P. Dear, T. Sakai

"Raman Spectroscopy Studies of Electronic Property of Polymer Carbon Nanotube Composites" Bin CHEN (NASA Ames, Calif.)

"Advancements in Actuation Devices for Extreme Environments"

Joan FULLER (Air Force Off.Sci.Res., Arlington, VA)

"Influence of Various Factors on Creep Behavior of Glass Fiber Reinforced-Polycarbonate" Takenobu SAKAI, Koji Kusumoto, Satoshi Somiya (Keio U., Japan)

"Detecting The Perforation Threshold of Curved Symmetrical Cfrp Composite Panels" Opukuro S. DAVID-WEST, David H. Nash, William M. Banks (U. Strathclyde, UK)

"Impact Performance of Composite Sandwich and Other Structures" John P. DEAR, Seung-Taek Oh, Hoon Lee (Imperial Coll. UK) chair

Friday 10:50AM-1:10AM Room Plataneras

Session 15b MATH 8

Chairs: P. Rosso, I.E. Esparragoza, A. Montanaro, A.Z. Asik

"Effects of Thermal Residual Stresses on the Failure Behaviour of Ve/Cf- Fibre-Bundle-Composites"

Patrick ROSSO (TU Kaiserslautern, Germany), Karoli Varadi (Budapest U.T., Hungary), Klaus Friedrich (TU Kaiserslautern)

"Thermal Stresses in a Fiber Embedded in a Matrix Under Steady Heat Conduction"

Ivan E. ESPARRAGOZA (Penn St.U.-Media)

"A Mathematical Model for the Dynamic Behavior of Laminated Glass Beams" Asik Zulfu ASIK, Mustafa Eray Gunel (Middle East T.U., Ankara, Turkey)

"Describing Polymeric Degradation Through Weight Measurements" Lloyd V. SMITH (Washington St.U.)

"Control of Spring-Mass Systems as Smart Composites" Adriano MONTANARO (U. Padua, Italy)

"Optimal Tailoring of a Viscoelastic Model for Polymeric Matrix Composites" Carlos OROZCO (U. North Carolina-Charlotte) Friday

"Stable Numerical Simulations of Delamination Propagation in Composite Laminates Using Cohesive Interface Model" Yutaka ZEMBA, Ning Hu, Hisao Fukunaga (U. Tohoku, Japan) Thurs-Friday

Friday 10:50AM-1:10AM Room Guezala

Session 15c GENERAL 8

Chairs: C.J. vonKlemperer, G.C. Papanicolaou, R. Grothaus, I. Yamada

"Nanofabrication Process Technology Using Gas Cluster Ion Beams.- a Review of Japanese Nanotechnology Program-"

Isao YAMADA (U. Kyoto, Japan), Noriaki Toyoda (U. Hyogo, Japan) INVITED 30 min

"Solar Powered Race Car: High Tech at Low Cost" Chris J. vonKLEMPERER, Victor E. VERIJENKO, Mark Gokool (U. KwaZulu-Natal, S. Africa)

"Organoclay-Polystyrene Nanocomposites Prepared by Different Methods" Ulku YILMAZER, Gulsum Ozden (Middle East T.U., Turkey)

"Static and Dynamic Notch Sensitivity of Polymer Matrix Fiber Composites" G.C.PAPANICOLAOU, G.Economopoulos, D.Mouzakis, Th.V.Kosmidou (U. Patras, Greece)

"Combined Effect of Water Absorption and Impact on the Mechanical Behaviour of Polymer Matrix Fiber Composites " Th.V. KOSMIDOU, G.C. Papanicolaou, G. Economopoulos (U. Patras, Greece)

"Failure and Post Failure Effects of High-Speed Composite Rotors" Raimund GROTHAUS, W. Hufenbach (TU Dresden, Germany)

"Preparation and Properties of Silicon Carbide Filaments with Inerratic Arranged Multi-Shaped Cross" Ying-de WANG (Nat.U. Defence Tech., Changsha, China)

"Fabrication and Microstructure of Magnesium Alloy-Microballoon Fly Ash Composites" Atef DAOUD, M.T. Abou-Elkhair, P. Rohatgi (Central Metall. R&D Inst., Cairo, Egypt)

Friday 10:50AM-1:10AM Room Acaymo

Session 15d INFRASTRUC 5

Chairs: L. Feo, K.M.A. Hossain, I.B. Topcu, L. S. Sherif

"Design Guidelines for the Strengthening of Reinforced Concrete and Masonry Structures with

FRP in Italy" Luigi ASCIONE, Luciano Feo (U. Salerno, Italy)

"Limit Analysis of Composite Reinforced Masonry Structures" Luciano FEO, Fernando Fraternali (U. Salerno, Italy)

"Punching Shear Strength of Steel Fiber Reinforced Concrete Flat Plates" Sayed SHERIF, M. Gohneim, S. Elibiari (Housing & Building Res.Cen., Cairo, Egypt)

"Performance of Strength Enhancement Devices Around Perforations in Double Skin Steel-

Concrete Pierced Profiled Composite Walls" Khandaker M.A. HOSSAIN (Ryerson U., Toronto, Canada)

"Raising of Water and Evaporation from Freshly Placed Concrete Surface" Ilker B. TOPCU (Osmangazi U., Turkey)

"Utilization of Crushed Tile as Aggregate in Concrete" Ilker B. Topcu, Mehmet CANBAZ (Osmangazi U., Turkey)

"Utilization of Waste Asphalt Aggregate in Concrete Highways" Tlker B. Topcu (Osmangazi U., Turkey), Burak ISIKDAG (Anadolu U., Turkey)

Friday 1:10PM-2:10PM LUNCH

Friday 2:10PM-5:30PM Room Nivaria

Session 16a NANO 13

Chairs: M.S. El-Shall, P.A. Mahanwar, P.P. Prochaza, S. Vyazovkin

"Kinetics and Mechanism of Degradation and Relaxation of Polystyrene-Clay Nanocomposites" Sergey VYAZOVKIN (U. Alabama-Birmingham) INVITED 30 min

"Synthesis, Characterization and Applications of Metallic and Intermetallic Nanoparticles,

Nanowires and Polymer.Nanocomposites" Garry Glaspell, Victor Abdelsayed, M. Samy El-SHALL (Virginia Comm U., Richmond) INVITED 30 min, chair

"Raman Microspectroscopy of Cement – Steel Interfaces During Hydration"

Petr Pavel PROCHÁZKA (Czech T.U.), Vladimír Machovic (Inst.ChemTech., Prague, Czech Rep), František Kolářc (Inst.Rock Struc.Mech., Prague) chair

"Low Density Polyethylene (LDPE) – Montmorillonite (MMT) Nanocomposites for Packaging" Prakash A. MAHANWAR, H. Raghu, V.A. Bambole (U.Inst.Chem Tech., Mumbai, India) chair

"Synthesis and Characterisation on Nano Polymer Based Composites" Thota SUBBARAO (SK Univ., India)

"A Facile Sol-Gel Template Approach Applied to Synthesis of TiO₂ Nanotube Arrays" Lei MIAO, S. Tanemura, H. Kuno, M. Tanemura, S. Toh, K. Kaneko (Nagoya I.T., Japan)

"Fabrication and Catalysis Evaluation of V₂O₅ Aerogel Emended by Pt Nano Particles" Sakae TANEMURA, T. Nishi, H. Kosaki, Lei Miao, M. Tanemura (Nagoya I.T., Japan), S. Toh, K. Kaneko (Kyushu U., Japan), K. Suzuki (Nagoya U., Japan)

"Synthesis and Catalytic Activity of Platinum / Titania Aerogel" Toshinori NISHI, S.Tanemura, H.Kosaki, L.Miao, M.Tanemura (Nagoya Inst.Tech., Japan), S.Toh, K.Kaneko (Kyushu U.), K. Suzuki (Nagoya Univ., Japan)

"Electrical Characterization of Tin Oxide Micro/Nanofibers" Idalia RAMOS, Neliza León, Glendalys Figueroa, Anamaris Meléndez, Yu Wang, Nicholas Pinto, Rogerio Furlan (U. Puerto Rico-Humacao), Jorge J. Santiago-Aviles (U. Pennsylvania)

"Rubber Nanocomposites from Natural Rubber and Nanosized TiO₂" Sabu THOMAS (Mahatma Gandhi U., Kerala, India)

"Self-Assembly Nanoparticle of Chitosan Modified by 6-O-Carboxymethyl, 2-N-Cholstero" Qiqing ZHANG, Yinsong Wang, Lingrong Liu, Fan Hua (Tianjin, China), Jian Weng (Xiamen U., China)

Friday 2:10PM-5:30PM Room Plataneras

Session 16b MATH 9

Chairs: M. Cerny, K.C. Jane, H.W. Liao, K. Behdinin

"Thermomechanical Properties of Continuous Basalt Fibers for Composites" Martin CERNY, P. Glogar (Czech Acad Sci), J. Gregr, P. Jakes (TU Liberec, Czech Rep.), Vladimir Kovacic, Jiri Militky (TU Liberec, Czech Rep.), Z. Sucharda (Czech Acad Sci)

"Thermal Effects on the Buckling and Postbuckling Deformations of an Anisotropic Rectangular Laminate" H.W. LIAO (Ling Tung Coll., Taichung)

"Thermoelasticity Problems of Multilayered Conical Shells Subjected to Internal Pressure and External Cooling" K.C. JANE, Y.H. Wu (N.Chung Hsing U., Taichung), H.W. Liao (Ling Tung Coll., Taichung)

"On the Development of a Incompressible Pseudo-Strain Energy Density for Soft Tissue" H. Ghaemi (McMaster U., Canada), Kamran BEHDINAN (Ryerson U., Toronto, Canada)

"The Influence of the Rotation Movement on the Vibrations of Composite Bars" D. BOLCU, Daniela Tamita (U. Craiova, Romania)

"Stiffness and Strength of Laminates made of Isotropic PCBA and PMMA Layers" George A. PAPADOPOULOS, E. Sideridis (Nat. T.U. Athens, Greece) SPECIAL POSTER

"Weathering Performance of Polypropylene Composites" M. KRISHNA, S.C. Sharma, H.N. Narasimha Murthy, Sanjeeva Murthy (RV College, Karnataka, India)

"An Equation for CTE of Particle Reinforced MMCs- a New Approach" S.C. SHARMA, M. Krishna, H.N. Narasimha Muthry (RV Coll., Bangalore, India) Mon,Tues

"Cold Hole Expansion Studies-by Finite Element Method" N. SHANMUKHA (RV College Engrg., Karnataka, India)

"Compression Tests of Circular Timber Column Confined With Carbon Fibers Using Inorganic Matrix" Husam NAJM, Jerame Secaras, Perumalsamy Balaguru (Rutgers, NJ) POSTER

Friday 2:10PM-5:30PM Room Guezala

Session 16c GENERAL 9

Chairs: A.F. Accardo, P. Mitschang, A.M.S. Hamouda, A. Calabro

"Novel Sensor Systems for on-Line Process Manufacturing: Optic Fiber Multipoint Refractometer to Increase Companies Productivity" Antonio CALABRO' (CIRA, Capua, Italy)

"Structural Design Criteria for Advanced Composite Mini UAVs" A.F. ACCARDO, Fabrizio Ricci, D. Lucariello (U. Naples Federico II, Italy)

"An Overview of Experimental Activities on Composite Structures for Aerospace Applications" A.F. Accardo, Fabrizio RICCI, D.Lucariello, P. Polese (U. Naples Federico II, Italy)

"Mossbauer Characterization in Powder Injection Molding" Joao V. ZAMPIERON (Sao Paulo U., Brazil)

"Induction Welding of Hybrid Composite-Metal-Parts" Peter MITSCHANG, Rudi Velthuis, Alois K. Schlarb (TU Kaiserslautern, Germany)

"Experimental and Computational Investigation on the Crushing Behaviour of Corrugated Laminated Composite" Ali ELGALIL, A.M.S. Hamouda, E. Mehdi, S. Sahari (U. Putra Malaysia)

"Crash Energy Management in Composite Automotive Structures" A.M.S. HAMOUDA, E. Mehdi, M. Alkaber (U. Putra Malaysia)

"Effects of Shape and Geometry on the Energy Absorption of Fiberglass Composite Tubes" Elfetori F. ABDEWI, A.M.S. Hamouda, S. Sulaiman, and E. Mahdi

"Ballistic Testing of Smart Laminar Aramid Fiber Reinforced Composites" Irene ZIVKOVIC (Belgrade, Servia & Montenegro)

"The Pultrusion of Hybrid Fiber (Glass/Carbon) Reinforced Unsaturated Polyester Composites " Chin-Hsing CHEN (Chinese Culture U., Taipei), Chih-Chao Yen(Ming Hsin U. Sci.Tech., HsinChu), Kung-Chin Lien(Chinese Culture U.)

"Behavior Simulation of Raisers by Finite Elements Method" Javier GARCIA delaFINAL (Inst Sup Poli Jose, Havana, Cuba)

Friday 2:10PM-5:30PM Room Acaymo

Session 16d CAMSS NCAT

Center for Advanced Materials Smart Structures

Chair, D. Pai, R. Gupta, E. Deyneka

"Developmental Study on Rolling Contact Fatigue Test Rig" Devdas PAI, Manohar S. Konchady (N.Carolina A&T ST.U.), K. Gopinath (Indian Inst.Tech.-Madras)

"Single Electron Energy Levels of Inas/Gaas Quantum Dots and Quantum Rings" Eugene DEYNEKA (N.Carolina A&T St.U.), I. Filikhin, B. Vlahovic (N.Carolina Central Univ., Durham)

"Aln-Tin Nano Thin Film Material Characterization Through 3-D Non-Linear Finite Element Modeling" Rahul GUPTA, Cindy K.Waters, Ajit D. Kelkar, William J. Craft, J. Sankar, D. Kumar (N.Carolina A&T St.U.)

"Effect of Phase Transformation of Alumina on the Catalytic Activity of Gold Catalyst for Oxidation of Carbon Monoxide at Room Temperature" Chandra BANERJEE, Arvind Harinath, Jag Sankar, Jianzhong Lou (N.Carolina A&T St.U.)

"Polymer Composite Membrane for Separation of Oxygen From Air" Ramya VEDAIYAN, Arvind Harinath, Jag Sankar, Jianzhong Lou (N.Carolina A&T St.U.)

"Synthesis of Stabilized Gold Nanoparticles for Polymeric Chemical Sensor" Jianzhong LOU, Arvind Harinath, Ramya Vedaiyan, Chandra Banerjee, Jag Sankar (N.Carolina A&T St.U.)

"Functionally Gradient Tunable Ceramic Coatings Through Progressive Impregnation" B. KAILASSHANKAR, D. Pai, J. Sankar (N.Carolina A&T St.U.)

"Fabrication Techniques for Ni – Ysz Based Solid Oxide Anode Material for Fuel Cells" G. RAJARAM, Z. Xu, D.M. Pai, and Jag Sankar (N.Carolina A&T St.U.)

"Tribological Characterization of Ionic Liquids" Manohar S KONCHADY, Devdas Pai (N.Carolina A&T St.U.), Richard Czerw (NanoTechLabs, Winston-Salem, NC), Jag Sankar (N.Carolina A&T St.U.)

FRIDAY NIGHT BANQUET

deleted
"A Novel Type of Carbon Fibres Strain Sensor with High Sensitivity" Wensong ZHOU, Hui LI (Harbin I.T., China)deleted
"...Nano-Rod Thin Film Growth for Optoelectronic and Magnetic Materials" Seonhyo KIM (POSTECH, Korea) deleted
"Synthesis and Magnetic Anisotropy of Multilayered Co/Cu Nanowires" Young-Keun KIM, Ji Ung Cho, Ji Hyun Min, Seung Pil Ko (Korea U., Seoul) Mon-Wed deleted
"Evaluation of Composite Paint Systems for the Corrosion Protection of Steel in Kuwait Marine Environments" Essam HUSSAIN (Kuwait Col Tec. Studies), A. Husain (Kuwait Inst.Sci.Res.) SPECIAL POSTER

"Active/Inactive Nanocomposites as Negative Electrodes in Li Batteries" Katerina AIFANTIS (Cambridge U., UK) deleted
"Nanomechanics and Applications" Elias C. AIFANTIS (Aristotle U. Thessaloniki, Greece) deleted

"Micropolar Theory of Elastic Thin Shells" G.S. Nikogosyan, Samvel H. SARGSYAN (Gyumri St. Pedagogical Inst., Armenia) deleted

which papers, can you do it immediately, so we can enter the program?
David Hui

-----Original Message-----

From: Marcin Adamiak [mailto:Marcin.Adamiak@polsl.pl]
Sent: Monday, July 25, 2005 7:35 AM
To: David Hui
Subject: Kind request

Dear Professor Hui,

please let me know if there are any possibilities to include two of my papers for the ICCE-12 Conference. I can not attend the conference personally but I will pay the publications fees - is such option is possible.

waiting for your respond,

sincerely yours

Marcin Adamiak

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