EuroSciCon

Materials-Manufacturing

October 04-05, 2018

Moscow, Russia



Day 1, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Metallurgy And Materials Science**	Talks On: **Manufacturing Innovations**	Talks On: **Materials Science and Engineering**
	Talks On: **Nanotechnology**	Talks On: **Characterization And Testing Of Materials**	Talks On: **Biomaterials**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Materials In Industry**	Panel Over: **Advanced Materials And Devices**	Panel Over: **Energy Materials**
	Workshop On: **Design & Engineering**	Workshop On: **Additive/Rapid manufacturing**	Workshop On: **Machine tools and metal fabrication**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **IoT/Smart manufacturing**	Talks On: **Robotics**	Talks On: **Smart materials**
	Lectures on: **Polymer Science Engineering**	Lectures on: **Polymer chemistry**	Lectures on: **Structural materials**
06:00 PM	Session On: **Light Metals**	Session On: **Metals & Metallurgy standards**	Session On: **Lean manufacturing**
	NETWORKING	**NETWORKING**	**NETWORKING**

Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **latest Materials Technologies**	Talks On: **Testing Materials**	Talks On: **Metallic Biomaterials**
	Talks On: **3D Printing/Additive Manufacturing**	Talks On: **Hydrometallurgy**	Talks On: **Thin films and coatings**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Market of Materials**	Panel Over: **Machine tools and metal fabrication**	Panel Over: **Reconfigurable manufacturing system**
	Workshop On: **Nanobiotechnology**	Workshop On: **Nanopowders**	Workshop On: **Mechanics of materials**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Polymer biomaterials**	Talks On: **Tissue engineering**	Talks On: **Materials Science and Engineering**
	Lectures on: **Biomaterials**	Lectures on: **Optical fibers and laser technologies**	Lectures on: **Ceramic materials in regenerative medicine and drug delivery**
06:00 PM	Session On: **Nanocrystalline ceramics, interfaces, thin and thick film processing**	Session On: **Ceramics for energy generation, conversion and storage**	Session On: **Structural and electronic ceramics**
	NETWORKING	**NETWORKING**	**NETWORKING**

https://materialstechnology.euroscicon.com/

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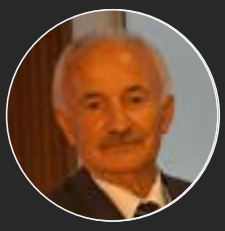
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Helmi Attia



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PROVISIONAL PROGRAM

Tentative Speakers

Title: Can charpy impact testing (high strain rate) detect the presence of hydrogen in high strength steels?

Omar S Es-Said, Loyola Marymount University, USA

Biography: Omar S. Es-Said is a professor in the Mechanical Engineering Department at Loyola Marymount University in Los Angeles, California. He was hired as an assistant professor from 1985-1992, associate professor from 1992-1998, and full professor from 1998-present. He received his B.S. degree in physics and his M.S. degree in solid state physics from The American University in Cairo. He received his PhD in Metallurgical Engineering and Materials Science from the University of Kentucky, Lexington in 1985.

Title: The formation of periodic concentration distribution under the phase transition of solutions

Guskov Aleksandr, Institute of Solid State Physics RAS, Russia

Biography: Alex Guskov received a Ph.D. degree in 1982 in Physical Institute of the Russian Academy of Sciences. He went to work in Institute of Solid State Physics the Russian Academy of Sciences, investigated the influence of interaction of laser radiation and a solid. He received a Ph.D. degree in 1982 in Physical Institute of the Russian Academy of Sciences.

Title: General methodology for manufacturing complex geometries in turbo machinery components

Haizea González Barrio, University of the Basque Country, Spain

Biography: Haizea González Barrio is Mechanical and Manufacturing Engineer and PhD student at the Basque Country University since 2015. She has experience in industrial companies, such as Novalti S.A. (aerospace manufacturing company). She also has an experience working as Mechanical Engineering Department Collaborator since 2013. She is specialized in hybrid manufacturing combining laser metal deposition and machining processes.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Modification of electrodes with a thin film of environmentally sensitive gel to get micro and nano electrode-array behavior

Zbigniew Jan Stojek, University of Warsaw, Poland

Biography: Zbigniew Jan Stojek is expertise in evaluation and passion in improving the health and wellbeing. Her open and contextual evaluation model based on responsive constructivists creates new pathways for improving healthcare.

Title: Controlling of microgel size by electrochemically induced volume phase transition

Marcin Dawid Karbarz, University of Warsaw, Poland

Biography: Marcin Karbarz's scientific interest has focused on the obtaining new, advanced gel materials with the desired properties. The research is focused on functionalization of gels to get their needed properties.

Title: Radio-Absorbing parametric material

Vladimir Arabadzhi, Institute of Applied Physics, Russian Federation

Biography: Arabadzhi Vladimir Vsevolodovich, physicist; born Minsk, Belarus, Apr. 22, 1956; Gorky State U., Russia, 1978, PhD in Radiophysics, 1994. Engr. Radiophys. Inst., Nizhny Novgorod, Russia, 1978-81; with Inst. Applied Physics, Russian Acad. Sci., Nizhny Novgorod, Russia, 1981-94, sr. scientist, 1994-.Contbr. Articles to profl. Jours. Achivements include inventions in active wave control. Area of interests: wave thrust, reducing of acoustical and radio visibility of physical bodies.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Machine learning: A new paradigm for process monitoring in Industry 4.0

Sergey A. Shevchik, EMPA, Switzerland

Biography: Sergey Shevchik got his background in laser physics and bio photonics and later enriched it participating in a number of projects in machine learning and artificial intelligence. This dual expertise allowed creating a number of unique techniques, in which the artificial intelligence is employed to understand the physics of a number of industrial processes and to go beyond the human possibilities in process monitoring.

Title: Electrical properties of conductive polymers under stress

António Manuel Relógio Ribeiro, University of Lisbon, Portugal

Biography: António Ribeiro is an Assistant Professor at the Mechanical Engineering department of Instituto Superior Técnico, lecturing several courses in the Mechanical Design and Structural Materials Scientific Area. He has a PhD in Mechanical Vibrations from the University of Lisbon. His current main studies focus on holistic approaches to Engineering Design and Additive Manufacturing.

Title: Cryogenic lubricoolant machining on difficult-to-cut alloys

Luis Norberto López de Lacalle, University of the Basque Country, Spain

Biography: He is professor of the department of Mechanical Engineering at the University of the Basque Country (UPV/EHU) and director of the Aeronautics Advanced Manufacturing Center (CFAA). He is also head of the high-performance manufacturing line. He manages international projects with several companies and research centers. Ph.D. for more than 20 years, nowadays his research lines are focused in machining processes for difficult-to-cut materials and green manufacturing.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Confined chemistry and its application for lithium/sodium ion batteries

Jie Sun, Tianjin University, China

Biography: Prof. Jie Sun has completed her PhD in Chemical Engineering and Technology by Beijing University of Chemical Technology and postdoctoral studies from Stanford Univerity. She has worked as professor of Chemical Engineering and Technology at Tianjin University. She has published more than 30 papers in reputed journals. The publications have been cited 1689 times.

Title: Effect of nucleation sites on texture weakening in a Mg WE43 alloy

Dikai Guan, University of Sheffield, United Kingdom

Biography: Dikai Guan revolves around the understanding of how Rare Earth elements work in Mg alloys and finding replacement elements which will produce weak basal texture Mg alloys that are cost and resource efficient

Title: Combustion synthesis (SHS) of single phase super-refractory ceramic materials

Levashov Evgeny Alexandrovich, National University of Science and Technology, Russia

Biography: Haruo Sugi graduated from postgraduate school in the University of Tokyo with the degree of PhD, and worked in the University of Tokyo Medical School, Columbia University and the National Institutes of Health. He was professor and Chairman in the Department of Physiology, Teikyo University Medical School from 1973 to 2004 when he became emeritus professor. Sugi was chairman of Muscle Commission in the International Union of Physiological Sciences from 1996 to 2006.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Electrostatic interaction of high energy neutrinos with plasma and its implications in astrophysical and astronomy

Mariia Redchuk, FZS Institute for Remote Physics, Germany

Biography: Mariia Redchuk specializes in the algorithms of computing the interaction cross-section of the neutrino-plasma as well as neutrino-antiplasma scattering and the spectra of the resulting coherent gamma emission. These computations are based on the well-known neutrino theory as well as modern plasma modelling in view of the recent High Energy physics developments.

Title: Effects of fe substitution on structural, electrical and magnetical properties of erbium ortho-chromite nano polycrystalline materials

Valeria Pettarin, Institute of Materials Science and Technology (INTEMA) National, Argentina

Biography: She was born in Argentina in 1974. She graduated in materials engineering in 1998 and received her Phd in materials science at the University of Mar del Plata. She is working as researcher at University of Mar del Plata.

Title: IBR manufacturing by hybrid combination of Laser Metal Deposition and machining processes

Aitzol lamikiz mentxaka, University of the Basque Country, Spain

Biography: Aitzol Lamikiz: Professor of the Department of Mechanical Engineering at the University of the Basque Country. He is leading the laser material processing research line and is the author of 68 impact International Journal Publications, including laser material deposition process modeling, laser polishing and laser hardening research. He is the co-author of 3 books and more than 100 contributions in international conferences.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Interaction of hydrogen with nanoscale structures in irradiated steel

Krasikov Evgenii, National Research Centre Kurchatov Institute, Russia

Biography: Master's Degree in Material Science 1970, Ph.D. 1974, D.Sc. -2005. Membership of professional bodies: member of Scientific Council of RAS on Radiation Damage Physics of Solids. Years within the firm: since 1974. Key qualification: responsible executor in Radiation Damage Physics of Solids. Professional experience record: since 1974 till now, Moscow, National Research Center "Kurchatov Institute", Department: Reactor Materials and Technologies Institute.

Title: Optimization of flux core arc welding on desirability function and design of experiments of flux core arc welding by response surface methodology

Kashif nazir, King Fahd University of Petroleum and Minerals Dhahran, Saudi Arabia

Biography: Kashif Nazir has his expertise in welding work. His optimization model based on desirability function and Response Surface Analysis create new pathways for improving welding by FCAW in outdoor condition. He has built this model after years of experience in research, evaluation, and administration in actual welding on refinery and gas plants

Title: Development of mineral-filled polymeric membranes obtained by extrusion to implement in separation by M.E.A.U.S procedure

Kian Habibi, Polytechnic University of Catalonia, Spain

Biography: Kian Habibi a PhD candidate at the Polytechnic University of Catalunya. Graduated in Hydrocarbon Reservoir Engineering from Tehran Science and Research University in 2012. Currently, he is in the 4th year of his PhD in Polytechnic University of Catalunya Material Science and Metallurgy Engineering department and the topic of his research is on Development of Mineral-Filled Polymeric Membranes Obtained by Extrusion. With an experience of 2 years work as a Reservoir Engineer in National Iranian South Oil Company and also, he was a lecturer at two Universities in Iran for 3 years.

PROVISIONAL PROGRAM

Tentative Speakers

Title: On the Reliability of Operation of Aircraft Integrated Electro-Hydraulic Servo Actuator

Mohamed Zaki Ahmed Fadel, Military Technical College, Egypt

Biography: Mohamed Zaki Fadel is a teaching assistant in the aircraft mechanics department in Military Technical College (MTC). He has great experience in Hydraulic control systems. He works at many researches and Technical reports and committees

Title: High-temperature precipitation and defect engineering in crystal

Vitalyi Igorevich Talanin, Zaporozhye Institute of Economics & Information Technologies, Ukraine

Biography: V. I. Talanin is a Full Professor and Vice-Chief of the Computer Science & Software Engineering Department of the ZIEIT, Zaporozhye, Ukraine. He has published extensively in material science and semiconductor physics, and in software engineering, as well as in Russian history and genealogy. His publications include 11 books and around 200 scientific papers. He is a Member of the Editorial Boards of Journal of Crystallization Process and Technology, Science and Technology, and Journal of Information Systems & Engineering and Management

Title: Thermodynamic studies of some current problems in materials science: Relevance to their solution and/or optimization

Yury S. Nechaev, I.P. Bardin Central Research Institute for Ferrous Metallurgy, Russia

Biography: Yury S. Nechaev is Dr. Phys.-Math. Sc., Prof., Chief researcher of G.V. Kurdyumov Institute of Metals Science and Physics, within I.P. Bardin Central Research Institute for Ferrous Metallurgy (Moscow). Education: Moscow Institute (Technical University) of Steel and Alloys (MISiS). Scientific-research fields: physical materials science, thermodynamic methods of analysis.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Status and future directions of adaptive, smart and sustainable machining systems for aerospace applications

Mahmoud Helmi Attia, McGill University, Canada

Biography: Helmi Attia is Principal Research Officer, Manager of Advanced Material Removal Processes at the National Research Council Canada, and Adjunct Professor of Mechanical Engineering, McGill University. Helmi is Fellow of CIRP (College International pour la Recherche en Productique), Fellow SME (Society of Manufacturing

Title: Extended adaptive control for electrical discharge machining

Ming Zhou, Beijing University of Civil Engineering and Architecture, China

Biography: Ming Zhou has focused on solving the issue of balancing electrical discharge machining (EDM) rate and machining stability over a decade. His achievements in developing adaptive control systems for EDM have created a new path in dealing with hard-to-machine materials

Title: Advanced concept in analysing tool performance in parts production processes

Amirat Abdelaziz, Badji Mokhtar University of Annaba, Algeria

Biography: Amirat Abdelaziz has completed his Bachelor's in Engineering in Production Engineering; MSc Research and PhD in Mechanics of Materials. He is a Professor since 2009 in Badji Mokhtar Annaba University and has been leading a research team in new materials and composite in the mechanics of material and plant maintenance laboratory.

PROVISIONAL PROGRAM

Tentative Speakers

Title: : Quality estimation of interference fits assembly based on press-fit curve

Xiaodong Wang, Dalian University of Technology, China

Biography: Xiaodong Wang has his expertise in precision assembly and automation in improving the assembly quality and efficiency for miniature devices. Currently his research work includes analysis of assembling process, design and manufacture automatic measuring instruments and assembly equipment for production of miniature devices.

Title: Electrically conductive biocompatible wireframe nanomaterial based on the matrix of carbon nanotubes for bioengineering and power engineering

G.V. Savostyanov, Saratov State University, Russia

Biography: G.V. Savostyanov is Ph.D. student at Saratov State Unversity. His scientific superviser – Professor Olga E. Glukhova. He is assistant at the Department of Radiotechnique and electrodynamics at Saratov State Unversity and programmer at Mathematical modeling in Educational and scientific institution of nanostructures and biosystems at Saratov State University. His research interests are: nanoelectronics, solid state physics, carbon nanostructures, molecular modeling, numerical methods, programming, high performance computing. He has 20 published works.

Title: Modification of synthetic fibrous materials by using nano-sized particles and coatings

Nataliya Prorokova, Russian Academy of Sciences, Russia

Biography: Nataliya Prorokova is currently working at Institute of Solution Chemistry of the Russian Academy of Sciences ., Ivanovo, Russia

PROVISIONAL PROGRAM

Tentative Speakers

Title: Basic physics disproves the obligatory ISO-14577 standards: A dilemma for all indentation mechanics

Gerd Kaupp, University of Oldenburg, Germany

Biography: Dr. Gerd Kaupp studied chemistry at the University of Würzburg, Germany and had postdoctoral appointments at Ames, Iowa, Lausanne, and Freiburg i. Br, where he became appointed as associate professor. From there he was appointed full professorship at the University of Oldenburg in 1982. He is keynote speaker in these fields, published numerous scientific papers and books and is inventor of patents in solid-state and environmental chemistry.

Title: Myosin heads in muscle can sense presence or absence of actin filaments to decide the direction of ATP-Induced movement

Haruo Sugi, Teikyo University of Medicine, Japan

Biography: Haruo Sugi graduated from postgraduate school in the University of Tokyo with the degree of PhD, and worked in the University of Tokyo Medical School, Columbia University and the National Institutes of Health. He was professor and Chairman in the Department of Physiology, Teikyo University Medical School from 1973 to 2004 when he became emeritus professor. Sugi was chairman of Muscle Commission in the International Union of Physiological Sciences from 1996 to 2006.

Title: Optical nanosensors based on light scattering: Physical principles and applications for medical diagnostics and food control

A.D. Levin, All-Russian Research Institute for Optical and Physical Measurements, Russia

Biography: A.D. Levin is currently working as an Leading Research Scientist at All Russian Research Institute for Optical and Physical Measurements.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Mechanical and electric properties of nanofiber-polymer composites under different electric fields

Masaru Matsuo, Dalian University of Technology, China

Biography: Masaru Matsuo has completed his PhD at Kyoto University in Japan and he was a professor of Nara Women's University. After his retirement, he became a full time professor of Dalian University of Technology in China. He is IUPAC fellow and "Certificate of Membership Award of ACS (July 2015~ July 2018). He received "Award of Society of Fiber Science and Technology of Japan on May 1990, "Paul Flory Polymer Research Prize" on April 2010 and "Certificate of friendship Award of Liaoning Province in China" on September 2011.

Title: Nanoclay application to geotextiles to improve adsorption function for removal of heavy metal and toxic components in waste landfill sites satellites

Han-Yong Jeon, Inha University, Korea (South)

Biography: Prof. Han-Yong Jeon, geosynthetics/technical organic materials researcher and he was the 32nd President of Korean Fiber Society (2014~2015). He has published more than 881 proceedings in domestic and international conferences. He has awards of Marquis Who'sWho - Science and Engineering in 2003~2018 and also, he got the 33rd Academy Award of Korean Fiber Society in 2006 and "Excellent Paper Award of 2012" by The Korean Federation of Science and Technology Societies.

Title: Plasma processing for carbon nanostructures

Mineo Hiramatsu, Meijo University, Japan

Biography: Dr. Mineo Hiramatsu is a Full Professor of Department of Electrical and Electronic Engineering and the Director of Research Institute, Meijo University, Japan. He served as the Director of The Japan Society of Applied Physics. His main fields of research are plasma diagnostics and plasma processing for the synthesis of thin films and nanostructured materials. Author of more than 100 scientific papers and patents on plasma processes for materials science. Member of organizing and scientific committees of international conferences on plasma chemistry and plasma processing. Japan Society of Applied Physics Fellow.

PROVISIONAL PROGRAM

Tentative Speakers

Title: : Preparation and fabrication studies of three dimensionally ordered nano-, micro- and meso-scale calcium phosphate crystallites scaffold for artificial bone materials (3-DOMm)

Myung Chul Chang, Kunsan National University, South Korea

Biography: Myung Chul Chang has completed his PhD at the age of 36 years from Seoul National University and postdoctoral studies from University Illinois at Urbana Champaign. He is the director of Biomaterials Lab. He has published more than 50 papers in reputed journals and has been serving as an editorial board member of repute.

Title: SWCNT-Single-walled carbon nanotube synthesis by alcohol catalytic chemical vapor deposition in high vacuum using platinum-group metal catalysts

Takahiro Maruyama, Takahiro Maruyama, Japan

Biography: Takahiro Maruyama is a Professor of Department of Applied Chemistry at Meijo University, Nagoya, Japan. He graduated from Factory of Science at Kyoto University and has completed his PhD at the age of 28 years from Kyoto University and postdoctoral studies from University of Tsukuba and Ritsumeikan University. He is the director of Nanomaterials Research Center in Meijo University. He has published more than 100 papers in peer-reviewed international journals and has been serving as an editorial board member of GCET.

Title: Configuring 2D materials by stacking order for energy harvesting and homo-junctions

Ze Xiang Shen, Nanyang Technological University,Singapore

Biography: Dr. Shen is a Professor in the School of Physical and Mathematical Sciences, Nanyang Technological University (NTU); Co-Director, Centre for Disruptive Photonics Technologies. His main research areas include graphene, 2D materials, and perovskites. He also works on graphene based composites for energy harvesting (Li Ion batteries and supercapacitors) and nano electronics. He won NTU Nanyang Award for Research and Innovation, and Gold Medal for Research Excellence by Institute of Physics Singapore. Shen authored over 500 peer reviewed journal papers, 6 book chapters, edited 5 books and over 300 conference papers.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Developement of dielectric nano-crystals structures for highly sensitive piezoelectric detectors

S. Berger, Technion-IIT, Israel

Biography: Shlomo Berger has completed his PhD from the Technion Institute of Technology, Israel. He completed one year of a postdoctoral term at Harverd University, USA. Since then, he is a faculty member in the faculty of materials science and engineering, Technion, Israel. His research group developed a unique process of growing low-k nano-crystals with preferred crystallographic orientations leading to a highly sensitive detection of heat and mechanical pressure. He presented his research work in many invited talks and reviewed scientific papers.

Title: Size-dependent behavior of electrospun polymer nanofibers

Arkadii Arinstein, Technion-IIT, Israel

Biography: Arkadii Arinstein received his PhD degree in Theoretical and Mathematical Physics from the Landau Institute for Theoretical Physics of the Russian Academy of Sciences in 1982. For many years he worked in the Semenov Institute for Chemical Physics of the Russian Academy of Sciences where he received DSc (habilitation) degree in Chemical Physics in 1995, and thereafter, Professor's rank. Now, Arkadii Arinstein is the Research-Professor at the Technion – Israel Institute of Technology. His research interests include statistical physics of polymers; non-linear phenomena and kinetic processes in disordered systems; etc. Last 10 years his studies are devoted to the physics of electrospun polymer nanofibers.

Title: : Optical properties of Nano composites

Dondi dall'Orologio Giovanni, University of Bologna, Italy

Biography: Giovanni Dondi dall'Orologio, doctor in Medicine at the University of Bologna in 1969, achieved the post graduated title of specialist in dentistry. He was Assistant Professor in 1973 and Associate Professor from 1983. Head of the Division of Conservative Dentistry from 1973 to 2014. Director of the Master in Clinical Dentistry with advanced technology from 2003 to 2014.
He experimented new technology with a spectrophotometer: this led to the development of a new machine for reading the color of composite restorations in vivo. He has published more than 75 papers in reputed international journals.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Biodegradable load-bearing Nano composites for controlled drug delivery and damaged bone repair

Elazar Y Gutmanas, Technion-Israel Institute of Technology, Israel

Biography: Elazar Gutmanas has defended his Ph.D.in 1970 (Institute of Solid State Physics, Academy of Sciences of USSR). He immigrated from the U.S.S.R. and joined Technion in1974. He investigated dislocation mobility and mechanisms of plastic deformation. Currently cold sintering is used for processing of load-bearing bioresorbable nanocomposites for orthopedic implants.

Title: Graphene-based ionic polymer metal composites for kinetic energy harvesting sustainably in the ocean

Hyung-Man Kim, INJE University, Republic of Korea

Biography: Hyung-Man Kim is currently Chair Professor of Mechanical Engineering at INJE University and the Director of the National Leading Research Laboratory of regenerative fuel cell. His academic career started with a Bachelor's and a Master's degree, both in Mechanical Engineering from Seoul National University, Korea, followed by a Ph.D. degree at the University of Tokyo, Japan, in 1997. In the international community, Prof. Kim has served as reviewer and has been a member of the editorial board for more than 20 international journals.

Title: Bismuth-based new photocatalysts and associated photoreactors

Jason Zhang, University of Ottawa, Canada

Biography: Dr. Jason Zhang completed his post-secondary education in Chemical Engineering at Hebei University of Technology, Tianjin University, and University of Waterloo respectively. He works at the University of Ottawa as a full professor and Vice-Dean of Engineering. He is currently on academic leave at Hebei University of Technology. Dr. Zhang has published over 70 papers in SCI-Indexed journals since 2013 and he also serves as editorial board members in Chinese Journal of Chemical Engineering and Biotechnology Advances.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Growing of apatite particles on surfaces of natural rubbers and their effects on blood wettability

Rodney Marcelo do Nascimento, University of Sã Paulo, Brazil

Biography: Rodney Marcelo do Nascimento has completed his PhD in the final of 2011 from Universidade Estadual Paulista UNESP, Brazil and postdoctoral studies from Université Claude Bernard Lyon, France in 2015. He has published 9 papers as first author in reputed journals and has been serving as a reviewer board member of the International Journal of Nanomedicine since 2017. He has received an award in Surface Engineering from the National Institute of Surface Engineering – Conselho Nacional de Desenvolvimento Científico e Tecnológico-CNPq, Brazil, 2013.

Title: Thin and ultrathin protective coatings - unapparent but already in industry

Väino Sammelselg, University of Tartu, Estonia

Biography: Väino Sammelselg has completed his PhD in 1989 from Institute of Physics of Estonian Academy of Sciences and following years was visiting resercher in several universities of Finland and Sweden. In 2003 was elected inorganic chemistry professor in the Institute of Chemistry of University of Tartu, is serving today also as head of materials science department in the Institute of Physics. He has published more than 140 papers referred in WOS database, and has h-index 32.

Title: Multiscale modeling framework for nanoparticles, nanomaterials, and nanotechnology

Andriy Kovalenko, University of Alberta, Canada

Biography: Andriy Kovalenko is Senior Research Officer at the National Institute for Nanotechnology, and Adjunct Professor in the Department of Mechanical Engineering at the University of Alberta, Edmonton, Canada. He earned his PhD degree (1993) in Theoretical and Mathematical Physics from Lviv State University, Bogolyubov's Institute. Dr. Kovalenko has been developing methodology and software implementation of statistical-mechanical, molecular theory of solvation, coupling it with electronic structure theories, molecular simulations, and docking protocols in a platform of predictive multiscale theory and modeling of chemical, supramolecular, and biomolecular systems for new advances of a general framework of multiscale methods.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Separation of medical Nanopowder from the natural minerals by ScCO2

Jambiin Oyun, National University of Mongolia, Mongolia

Biography: Jambiin Oyun-Professor of Chemical Department of Technology Division at the Ulaanbaatar State University of Mongolia. Graduated from Irkutsk State University named A.A. Zhdanov specializing in chemistry. In 1984 was defended Ph.D on the topic “Concentration and determination of microquantities rare earth elements from minerals and rocks by polymeric chelating sorbents” and Sc.D on the topic “Scientific basis of traditional technology for the treatment of pharmaceutical minerals in Mongolia” by the Scientific Committee of the Mongolian Academy of Sciences and Chemical Science in 2002.

Title: Anthracene-based molecular glasses. Design, synthesis and applications in nanolithography and organic electronics. Overview and perspectives

Veroniki P. Vidali, NCSR "Demokritos", Institute of Nanoscience & Nanotechnology, Greece

Biography: Dr. Veroniki P. Vidali is an organic chemist. She obtained her PhD, from Agricultural University of Athens (2004), working on total synthesis. She worked as a post-doctoral fellow at Natural Products and Bioorganic Chemistry Laboratory/Institute of Nanoscience and Nanotechnology at NCSR “Demokritos" (2004-2007) and as scientific staff (2007-2017), while since 2017 she has been working as a research assistant at NCSR “Demokritos. She has co-authored 18 peer-reviewed research articles in international journals, one book-chapter and she is co-inventor in two patents.

Title: AgNP/CE Electrospun Nanofibers for antibacterial applications

Jatoi Abdul Wahab, Shinshu University, Japan

Biography: Mr. Jatoi Abdul Wahab is a PhD student at Bioscience and Textile Technology Department, Shinshu Univeristy, Ueda, Japan. He did his M.E from Mehran-UET, Pakistan and MSc in Textile Engineering (Chemical Engineering Class) from Politecnico di Torino, Italy. Mr. Jatoi has been engaged in research, teaching and academic activities for over ten (10) years. He has so far published 17 research articles in reputed research journals. He is author of four (4) workbooks and has presented (both oral and poster presentations) his research in several international conferences as well.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Absolute stability of control system with electromagnetoelastic actuator for nanotechnology applications

S.M. Afonin, National Research University of Electronic Technology MIET, Russia

Biography: Sergey Mikhailovich Afonin (PhD) now is an associate professor of Department of Intellectual Technical Systems of National Research University of Electronic Technology (Moscow Institute of Electronic Technology MIET). A graduate of the National Research University of Electronic Technology MIET, engineer in Electronic Technology 1976. Degree PhD in Electronic Technology Engineering and Control Systems received in MIET 1982.

Title: Shadow boxing with laser: Laser damage resistance of three-Dimensional photonic crystals

Lei Pan, Harbin Institute of Technology, China

Biography: Lei Pan is a research associate in School of Chemistry and Chemical Engineering at Harbin Institute of Technology. He received his B.E. and M.E degrees from Tianjin University and Ph. D from Harbin Institute of Technology (2015). His current research interests mainly focus on design and fabrication of well-defined nano-structured materials and their applications for optical and thermal field.

Title: THz short pulse generation in quantum cascade lasers

Jerome Tignon, Sorbonne Université, France

Biography: Jerome Tignon has complete his PhD at ENS/SU in Paris in 1996 and his postdoctoral studies at LBNL (Berkeley, CA) in the Chemla group (1996-98). He is currently the director of the Laboratoire Pierre Aigrain (for condensed matter) in the Physics Department of Ecole Normale Superieure in Paris. He has published more than 150 papers, gave over 50 invited talks and will be the chairman of IRMMW-THz in Paris (2019).

PROVISIONAL PROGRAM

Tentative Speakers

Title: Photoluminescence of Carbon Quantum Dots

S. J. Xu, University of Hong Kong, Hong Kong

Biography: S.J. Xu received his PhD in Electronic Engineering from Xi'an Jiaotong University in 1993. He is currently a full professor with tenure in Department of Physics, The University of Hong Kong (HKU). Prior to joining HKU, S.J. Xu conducted research in Institute of Materials Research and Engineering (IMRE) as a research fellow, Singapore, and in National University of Singapore (NUS) as a postdoctoral fellow, respectively. He has published more than 160 peer-reviewed articles with >5300 citations (Google Scholar), and has been serving as an editorial board member of several international journals.

Title: Design of bulk nanostructured materials for superior multifunctional properties

Ruslan Z. Valiev, Ufa State Aviation Technical University, Russia

Biography: Ruslan Z. Valiev is Director of Institute of Physics of Advanced Materials, Ufa State Aviation Technical University (Ufa, Russia) and also Supervisor of the Laboratory for Mechanics of Advanced Bulk Nanomaterials of Saint-Petersburg State University. Professor Valiev established the vision for the potential of bulk nanostructured metals and pioneered the development of severe plastic deformation as the effective process by which these materials can be produced.

Title: Structural design of double layer microwave absorbers based on PVB/BaTiO3 and PVB/PANI modified-BaTiO3 nanocomposites

Yuksel AKINAY, Karabuk University,Turkey

Biography: Yuksel Akinay is a research assistant at Materials Research and Development Center of Karabük University, Turkey. He obtained his Bachelor's degree from the Metallurgical and Material Engineering Department, University of Yıldız Technical University, Istanbul, Turkey, in 2010. Dr. Akinay received his PhD degree in Material Science from Karabuk University in Turkey. His research interests include polymer composite materials, nanocomposite, microwave absorbing, microstructure characterization. He was trained for SEM characterization at Zeiss Company, Germany and he has been working in the SEM laboratory for about 4 years. He has 12 more test certificates besides SEM.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Confined Nanoscale geometries to enhance sensitivity of Plasmonic

Rishabh Rastogi, Luxembourg Institute of Science and Technology, Luxembourg

Biography: Rishabh Rastogi is a PhD. Student from Delhi, India. During his studies he worked within different laboratories learning scientific skills and gaining experience in nanofabrication, which made him motivated towards this field. He is working on fabrication of structures that engineered nanoscopically in order to achieve enhancement in electromagnetic waves due to confinement effects. At LIST he is working towards developing plasmonic immunoassays with extreme sensitivity.

Title: Gas phase of nanoparticle production at large scale

S.P. Bardakhanov, Lavrentiev Institute of Hydrodynamics of SB RAS, Russia

Biography: Professor Sergey P. Bardakhanov has completed his PhD at the 1985 from Khristianovich Institute of Theoretical and Applied Mechanics, Dr. Sc. at the 1999 from Institute of Thermophysics. He is the general director of “Bardakhanov” LLC, a nanopowder production company. He has published more than 100 papers in reputed journals.

Title: Enhanced metallized nanoporous aluminum oxide films: Principles of obtaining, main results and applications

Gleb A. Lyubas, Russian Academy of Sciences, Russia

Biography: Gleb A. Lyubas has completed his PhD at the age of 30 years from Novosibirsk State University. He is the research scientist of Vorozhtsov Institute of Organic Chemistry, Siberian Branch, Russian Academy of Sciences, Novosibirsk, 630090 Russia. He has published more than 55 papers in reputed journals.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Ways to accelerate nanotechnologies implementation in the health care system

Valyaev Alexandr, Russian Academy of Sciences (IBRAE RAS), Moscow, Russia

Biography: Valyaev Alexandr completed his Ph.D in 1978 at Polytechnic Institute, Ekaterinburg, Russia and1998,D.Sc. Nuclear Physics Institute, Academy of Sciences of Kazakhstan, Alma-Ata, Kazakhstan and 2001 D.Sc. Certification of Russian Supreme Certifying Commission (Moscow). Since 2001- Nuclear Safety Institute of Russian Academy of Science, (Moscow, Russia), Division of Ecological Safety and Radiation Risk, . Leading Research Scientist.

Title: Nanoscale deformation characterization of light-weight ceramics

Kolan Madhav Reddy, Shanghai Jiao Tong University, China

Biography: Dr. Kolan Madhav Reddy received his PhD in Materials Science and Engineering from Tohoku University, Japan. He did postdoctoral research at Johns Hopkins University, USA. His currently an Associate Professor in School of Materials and Engineering at Shanghai Jiao Tong University, China. In his brief carrer, he has authored and co-authored more than 25 peer-reviewed papers and a filed a patent.

Title: Stable plasma protein coatings on magnetite nanoparticles for biomedical applications

Anna V Bychkova, Russian Academy of Sciences, Russia

Biography: Anna V. Bychkova has graduated from D. Mendeleyev University of Chemical Technology of Russia in "Materials science and technology of new materials" and completed her PhD in "Physical Chemistry" from N.M. Emanuel Institute of Biochemical Physics, Russian Academy of Sciences (Moscow, Russia) where has been working as a reserch scientist since 2006. She has published more than 50 papers in peer-reviewed journals, 7 chapters in books, 1 Russian patent and awarded the scholarship of the President of the Russian Federation for young scientists and graduate students engaged in research and development in priority areas of the Russian economy modernizing (2013-2018).

PROVISIONAL PROGRAM

Tentative Speakers

Title: Accumulation of silver nanoparticles in mammalian brain and effects on cognitive functions

Anna Antsiferova, National Research Center 'Kurchatov Institute', Russia

Biography: Anna Antsiferova graduated from the Physical faculty of Lomonosov Moscow State University in 2011. She has recieved her PhD degree in Physics and Math at the National Research Center 'Kurchatov Institute' in 2016. She is a Head of the Laboratory of Nanosafety of the National Research Center 'Kurchatov Institute', Deputy Dean of the Institute of Nano-, Bio-, Informational, Cognitive and Sociohumanitarian Technologies at Moscow Institute of Physics and Technology and an Assocciate Professor there. She has published 18 papers in reputed journals, 2 books and given more than 30 talks on the international conferences.

Title: Some modern ideas of circuit diagnostics theory in the nanotechnology age

Nikolay Kinsht, Russian Academy of Sciences, Russia

Biography: Nikolay Kinsht is an Head of the Sector of Electrophysics and Power and Professor of the Far Eastern Federal University, Full Member of the Russian Academy of Electrical Engineering, Full Member of the Russian Engineering Academy Member IEEE.

Title: Universal Transfer technique for 2-Dimensional atomic crystals grown by chemical vapor deposition

Dae Joon Kang, Sungkyunkwan University, South Korea

Biography: Following 20 years of extensive research experiences in solid-state physics and nanotechnology at UK and USA based universities, Prof. Kang moved to Sungkyunkwan University, Korea in 2005. He has published more than 180 SCI peer-reviewed SCI articles in the top journals including Nature Nanotechnology and several book chapters in solid-state physics and nanotechnology area covering from nanofabrication to materials synthesis and to device physics. The quality of his work can be easily indicated by Scopus H-index of 40 and the total citation of over 4500.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Recent research progress of photovoltaic materials for high performance polymer solar cells

Yongfang Li, Soochow University, China

Biography: Yongfang Li is an academician of Chinese Academy of Sciences and he is currently leading a research group. He is an Professor of Suzhou University. He was born in 1948. He graduated from high school in 1966, but entered university (East China University of Science and Technology and got his M.S and Ph.D. degree from East China University of Science and Technology in 1982 and from Fudan University in 1986 respectively.

Title: Polymer particles with tunable shapes and internal structures

Jintao Zhu, Huazhong University of Science and Technology, China

Biography: Jintao Zhu has completed his PhD from Changchun Institute of Applied Chemistry, CAS in 2005 and postdoctoral research from University of Alberta and University of Massachusetts Amherst. In 2009, He joined as a Professor in the School of Chemistry and Chemical Engineering at Huazhong University of Science and Technology. He currently serves as Associate Editor of Macromolecular Research and Materials Express.

Title: FIB patterned ALD oxide multilayer hard masks for nanofabrication

Zhongmei Han, University of Helsinki,Finland

Biography: Zhongmei Han currently working at University of Helsinki, Helsinki HY with expertise in Inorganic Chemistry, Materials Chemistry, Nanotechnology.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Complexity and multi-functionality of superconducting metamaterials

G. P.Tsironis, University of Crete, Greece

Biography: Giorgos Tsironis is a professor in the Physics Department of the University of Crete. He obtained his PhD from the University of Rochester (USA) in 1986 and was a postdoctoral associate in the University of California San Diego (1986-89) and the Fermi National Accelerator Lab (1989-91) and assistant professor at the University of North Texas (1991-94). He was visiting professor in the University of Barcelona (2000-1 and 2006-7), professor in Nazarbayev University in Kazakhstan (2014-15) and visiting fellow in the School of Engineering and Applied Science at Harvard University in 2017. His recent research focuses on superconducting and quantum metamaterials.

Title: Advanced ultrafast laser-based methods for material micro/nano-structuring and time-resolved studies of nanostructures and reduced dimensionality systems

Loukakos, Foundation for Research and Technology, Greece

Biography: Dr. Panagiotis Loukakos has completed his PhD from the University of Crete and postdoctoral studies from the Free University of Berlin, Physics Department. He is head of FLASSS, a laser-based laboratory operating in the Institute of Electronic Structure and Laser at the Foundation for Research and Technolofy – Hellas. His primary research acticity is Femtosecond Laser-based Spectroscopy in the Solid State (FLASSS) and the study of the interaction of ultrafast lasers with condensed phase materials.

Title: Titanium (IV) oxide:M (V, Ni, Ag)/Zeolites nanocomposites. preparation. photocatalytic, adsorption and antibacterial properties

E N Domoroshchina, Moscow Technological University, Russia

Biography: Elena Domoroshchina has completed her PhD at the age of 26 years from Moscow State Academy of Fine Chemical Technology. Now she is the Senior Researcher of Moscow Technological University. She has published more than 35 papers in reputed journals and is an author of 11 Patents.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Graphene–Carbon nanotube composite for flexible and wearables electronics

O.E. Glukhova, Saratov State University, Russia

Biography: O.E. Glukhova received Ph.D. in Vacuum and Plasma Electronics (1997) and Dr. Sc. in Solid State Electronics and Nanoelectronics (2009) from the Saratov State University, Russia. She is a head of Department of Radiotechnique and electrodynamics at Saratov State University and leads the Division of Mathematical modeling in Educational and scientific institution of nanostructures and biosystems at Saratov State University.

Title: Sub-Oxide passivation of silicon nanoparticles produced by mechanical attrition

David Moweme Unuigbe, University of Cape Town, South Africa

Biography: David Unuigbe is a PhD candidate in the Department of Physics at the University of Cape Town, South Africa. His research is focussed on the morphology, electronic and chemical properties of silicon nanoparticles synthesized by mechanical attrition.

Title: Development and implementation quantum dot cellular automata (qca) of intelligent systems equipped with real-time inference of oil well water quality parameters

Antonio Faustino Muñoz Moner, Autonomous University of Bucaramanga, Santander Colombia

Biography: More than 25 years of experience in the Scientific, Investigative and Pedagogical Directorate. Investigations carried out. He has directed International Projects in topics Automation of Industrial Plants, Advanced Nanotechnology .Nanobinstrumentation, Modernization of Instrumentation and Control in Industrial Plants. Modeling and Simulation of Industrial Systems of Robotics.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Lonizing radiation sensors based on carbon nanotubes

Fontánez K, Universidad del Turabo, USA

Biography: Kenneth Fontánez graduated from an associate degree in Mechanical Engineering. He is a research student in Universidad del Turabo in Puerto Rico currently pursuing a bachelor's degree in chemistry with a record of 3 different investigations as well as an internship in Universidad Autonoma de Madrid (UAM).

Title: Defect states in hexagonal boron nitride: Assignments of observed properties and prediction of properties relevant to quantum computation

A. SAJID, University of Technology Sydney, Australia

Biography: SAJID ALI is a 3rd year PhD student at University of Technology Sydney, Ultimo, New South Wales 2007, Australia. He is also a lecturer in physics at GC University Faisalabad, PAKISTAN. . He has over 15 publications that have been cited over 100 times.

Title: Heterogeneously integrated Micro-LEDs for displays and beyond

Zhaojun Liu, Southern University of Science and Technology, China

Biography: Zhaojun Liu currently working at Department of Electrical and Electronic Engineering, Southern University of Science and Technology, Shenzhen, China.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Gallium Nitride metasurfaces: innovative perspectives and industrially relevant manufacturing processes

Patrice Genevet, French National Centre for Scientific Research, France

Biography: Patrice Genevet is currently working at French National Centre for Scientific Research, France and he is head of the Genevet group.

Title: Two-Dimensional layered heterostructures of graphene-supported transition-metal oxide nanostructures

Vijay K. Srivastava, Indian Institute of Technology, India

Biography: He has done Ph.D. in Mechanical Engineering from IIT(BHU), Varanasi, India and postdoctoral from University of Bath, UK; QMW, London; and MPA, University of Stuttgart, Germany. Published more than 167 papers in peer reviewed international journals. Collaborated various international projects with UK, USA, Germany, Australia, Japan, South Korea, Italy, Czech Republic, Poland and France. Presently FOUNDER PRESIDENT of "ICRACM SERIES" international conference and Adjunct Professor, Faculty of Industrial Science & Engineering, Swinburne University of Technology, Victoria, Australia.

Title: Preparation and characterization of nano-statins isolated from mushroom for prevention of atherosclerosis

Akansha Mehra, Amity University, India

Biography: Miss Akansha Mehra, a Research Scholar, is enrolled at Amity Institute of Advanced Research and Studies, Amity University, Noida, India. Her research topic is preparation and characterization of herbal nano-statins for prevention of atherosclerosis. She is in the second year of her Ph. D. She has two patents and one publication.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Ferrite bismuth BIFEO3 synthesized on the solar furnace

Mukhammad-Sultan Paizullakhanov, Tashkent city, Uzbekistan

Biography: Mukhammad-Sultan Payzullakhanov has completed in the 1984 at the age of 25 years from Uzbek National University and postdoctoral studies from Nuclear Physics Institute of the Uzbekistan academy of Sciences and defended PhD thesis on the effects of radiation on the structure and properties of superconducting ceramics in the 1998. The field of scientific interests is material sciences, solar energy use. He is the head of the ceramics laboratory of the Material-sciences institute of the scientific production association “Physics-Sun”. He has published more than 45 papers in reputed journals and has been serving as an editorial board member of repute.

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