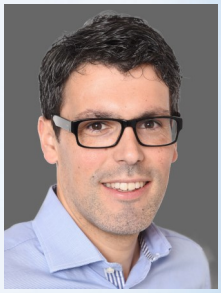
Plenary Medal Lectures - Wednesday, July 7, 2021

Topic of the Speech:
Crisis of Anti-Covid Vaccines in France: Today and Future

Dr. Liya Ju
PreciMed Platform Europe
France

Dr. Liya Ju, MD, PhD, Started her research work in China in the eighties in the field of molecular and genetic biology of nasopharyngeal cancer with Pr Dausset, Nobel Price in immunology, she joined in 86 the French public research institute INSERM in Paris and obtained her PhD in immunology at the Institute Pasteur. In 94, she joined Debiopharm, a Swiss biotech company as director of the Chinese Program, as direct assistant to the President General Director for 15 years. Her tasks were the registration of European compounds for the Chinese market (oxaliplatin, decapeptyl), identification of new Chinese molecules from biotech and traditional medicine for development in Europe and US , recognition of DebioChina brand all over China, and building an academic and biotech network serving Debiopharm.

Topic of the Speech:
Current Research and Development on Community Masks

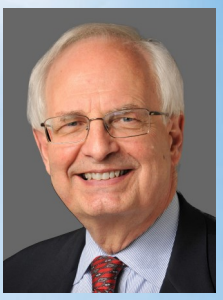


Dr. Simon Annaheim
Scientific Group leader "Body-Materials-Interaction" group
Empa, Swiss Federal Laboratories for Materials Science and Technology
Switzerland

Dr. Simon Annaheim completed his PhD in human movement sciences at ETH Zurich in 2009. He joined the Federal Laboratories for Materials Science and Technology (Empa) in 2011 to investigate local pressure impacts and wearing comfort of backpacks. Simon Annaheim became a scientific group leader of the Materials -Body-Interaction group in 2013. The research group investigates thermal and mechanical interactions of the human body with materials (textiles and carriage systems) and its environment employing sensing, modelling and the combination thereof and provides critical inputs for smart clothing developments. Simon Annaheim published more than 60 papers in peer-reviewed scientific journals is involved in the acquisition and management of research and applied research projects in collaboration with partners from academia, clinics and industry as a principal investigator as well as a project partner.

Plenary Medal Lectures - Wednesday, July 7, 2021

Topic of the Speech:
Rethinking Critical Processes for Combating a Pandemic



Professor A. Blanton Godfrey
Joseph D. Moore Distinguished University Professor & Former Dean
Wilson College of Textiles
North Carolina State University
Raleigh, North Carolina
USA

Prof. A. Blanton Godfrey is the Joseph D. Moore Distinguished University Professor of Textile and Apparel, Technology and Management in the Wilson College of Textiles. He is a Fellow of the American Statistical Association, the American Society of Quality, the World Academy of Productivity Sciences, the Royal Society of Arts, Manufactures and Commerce and an elected member of the New York Academy of Science. Professor Godfrey is the recipient of the C. Jackson Grayson Distinguished Quality Pioneer Medal, the Feigenbaum Lifetime Achievement Medal, and is an Honorary Member of the American Society for Quality. He has a B.S. in Physics from Virginia Tech and an M.S. and Ph.D. in Mathematical Statistics from Florida State University. He is the co-author of eight books and over 30 book chapters and has published over 200 papers. Prior to joining NC State University as Dean of the College of Textiles, Dr. Godfrey was Chairman and CEO of Juran Institute, a quality management consulting company working in over 60 countries. He joined Juran Institute after fourteen years at Bell Telephone Laboratories where he was Head of the Quality Theory and Technology Department. He taught graduate courses at Columbia University for nineteen years as an adjunct professor in Industrial Engineering and Operations Research and was a visiting lecturer in clinical quality at Harvard University for four summer courses. In 1987 he co-founded the National Demonstration Project for Quality Improvement in Healthcare that later became the Institute for Healthcare Improvement, an organization that he has been associated with for over 30 years serving as a member and as chair of the board.

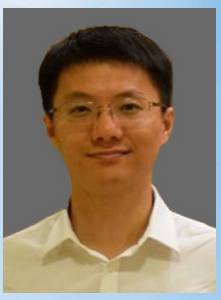
Topic of the Speech:
Rethinking Critical Processes for Combating a Pandemic

Dr. Shaghaeygh Rezaei Arangdad
Research Assistant Professor
Wilson College of Textiles
North Carolina State University
Raleigh, North Carolina
USA

Dr. Shaghaeygh Rezaei Arangdad received her Ph.D. in Textile Technology Management from the Wilson College of Textiles at North Carolina State University. As a post-doc she focused much of her research in dynamic interactive data visualization and utilization in support of research grants with the U.S. Department of Health and Human Services with the University of North Carolina-Chapel Hill Gillings School of Global Public Health and a private foundation grant with the UNC-CH WHO Coordinating Center focused on maternal and child health. This work is in direct support of the United Nations Sustainable Development Goal 3 and UNICEF. Dr. Arangdad has acquired knowledge and extensive experience during years of education and research in the field of textiles, sustainability, data science, and quality improvement in healthcare. She leads the joint development of the Dynamic Interactive Data Visualization & Utilization Lab for UNC-CH and North Carolina State University. She also has an M.Sc. in Textile Management from the Science & Research University in Tehran, Iran and a B.Sc. in Industrial Management from the College of Management in Tehran University. She has published papers in medical textiles, statistics and data science, and apparel and textile sustainability and consumer behavior. Dr. Arangdad has also supported over 300 graduate students in Lean Six Sigma courses and projects and over 300 undergraduate students in textile and apparel entrepreneurship and new product development.

Plenary Medal Lectures - Wednesday, July 7, 2021

Topic of the Speech:
Porous Conductive Textiles for Wearable Electronics



Professor Zijian Zheng
Institute of Textiles and Clothing
Research Institute for Smart Energy
The Hong Kong Polytechnic University
Hong Kong, China

Prof. Zijian Zheng is currently Full Professor at the Institute of Textile and Clothing (ITC) at The Hong Kong Polytechnic University. His research interests are surface and polymer science, nanolithography, flexible and wearable materials and devices. He received his B. Eng. in Chemical Engineering at Tsinghua University in 2003, and PhD in Chemistry at University of Cambridge in 2007 (Supervisor: Prof. Wilhelm T. S. Huck). In 2008, he worked as postdoctoral researcher (Advisor: Prof. Chad A. Mirkin) at Northwestern University. He joined ITC as Assistant Professor in 2009, and was promoted to tenured Associate Professor in 2013 and Professor in 2017. He has published about 120 papers in high-impact international scientific journals including Science, Nature Materials, Nature Communications, Advanced Materials, Journal of the America Chemical Society, Angewandte Chemie. He also files 20 patents and is recipient of more than 10 academic awards. He is Editor-in-Chief of EcoMat, the Flagship open access journal in green energy and environment of Wiley, and Guest Editor of Advanced Materials and Small. He is elected as Founding Member of The Hong Kong Young Academy of Sciences and Chang Jiang Scholar of China.

Topic of the Speech:
Wearable Smart Sensor System

Dr. Youfan Hu
Peking University
China

Dr. Youfan Hu received her Ph.D. degree in Physical Electronics from Peking University, Beijing, China in 2008. She is currently an Associate Professor in the Department of Electronics at Peking University. Her research interests include high performance nanosensors, flexible carbon nanotube based integrated circuits, energy harvesting technology, and integrated smart sensor system. So far, she has published over 60 peer reviewed journal articles with a citation exceed 6000. Currently, she serves as Associate Editor of IEEE Transactions on Nanotechnology, Executive Board Member of Science Bulletin and Editorial Board Member of Sensors.

Plenary Medal Lectures - Wednesday, July 7, 2021

Topic of the Speech:
Preparation, Characterizations and Application of Auxetic Functional and Smart Textiles based on Nanocomposites

Professor Zhaoqun Du
College of Textiles
Donghua University
China

Prof. Zhaoqun Du is a full Professor and Ph.D. supervisor in College of Textiles, Donghua University. He obtained his Ph.D. from Donghua University and B.S. from Zhongyuan University of Technology. He has been undertaken and completed over 10 projects from National Natural Science Foundation of China, Fok Ying Tung Education Foundation, and Ministry of Education of China. By acquiring substantial research funding support from government funding bodies and industry, he established Comprehensive Handle Evaluation System For Fabrics and Yarns, Theoretical Analysis of Mechanical and Heat/Mass Transferring Behavior of Fiber Assembly, Finite Element Analysis and Simulation of Textile Products, Characterization and Modeling of Structure and Behaviour of Textile Materials, and Design and Characterization of Functional and Smart Textiles. He has published over 80 papers and been authorized over 70 patents. Some of the achievements are awarded by Fujian provincial government and China National Textile Industry Association. He has taught various courses at undergraduate and postgraduate levels including Physics of Textiles, Textile Measurement, Nanocomposite Science and Technology.

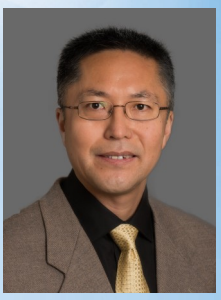
Topic of the Speech:
Mechanical Properties of Fabric to be Considered in Simulation and Fabric Selection

Professor Masayuki Takatera
Institute for Fiber Engineering (IFES)
Interdisciplinary Cluster for Cutting Edge Research (ICCER)
Shinshu University
Japan

Prof. Masayuki Takatera studied textile engineering at the Faculty of Textile Science and Technology, Shinshu University, graduated 1981, and gained his Eng. Dr. from Shinshu University, 1995. He is the Deputy Director of Institute for Fiber Engineering (IFES), Interdisciplinary Cluster for Cutting Edge Research (ICCER), Shinshu University, Japan. He is also the director and former president of Japan Society of KANSEI Engineering (JSKE).He was awarded the best paper award from Society of Fibre Science and Technology, Japan (2000), technical award from Japan Society of Textile Machinery (2001), prize from the Society of Fibre Science and Technology, Japan (2005), technical award from Japan Society of Kansei Engineering (2003, 2009), Outstanding Paper Award from Emerald Literati Network (2006, 2011).His research interests are structural mechanics of fibres and fibre assemblies (fabrics generally); clothing engineering; Kansei engineering for both apparel and textile field. He is author of more than 140 scientific articles in national and international journals, several chapters in scientific books, more than 180 international conference proceedings and several patents.
Deputy Director

Plenary Medal Lectures - Wednesday, July 7, 2021

Topic of the Speech:
Super-semiconductor: An Intriguing Conducting Material



Professor Bingqing Wei
University of Delaware
USA

Prof. Bingqing Wei is a Professor in the Department of Mechanical Engineering at the University of Delaware, USA. He received his Ph.D. degree in 1992 from Tsinghua University in Beijing, China. Dr. Wei was a faculty member at Louisiana State University from 2003 to 2007 and at Tsinghua University from 1992 to 2001. He was a Research Scientist at Rensselaer Polytechnic Institute from 2000 to 2003, and a visiting scientist at Max-Planck-Institut für Metallforschung, Stuttgart, Germany in 1998 and 1999. Dr. Wei is among Highly Cited Researchers from Clarivate for his research on nanomaterials that enable energy conversion and storage.

Plenary Medal Lectures - Thursday, July 8, 2021

Topic of the Speech:
Innovation and Sustainable Development of Apparel Engineering System

Professor Yan Chen
Soochow University
China

Prof. Yan Chen received her PhD degree in textile engineering, School of Textile and Clothing Engineering, Soochow University. Currently she is the professor in Department of Clothing Design and Engineering; the reviewer of Journal of Global Fashion Marketing, Journal of Industrial Textile, Textile Research Journal, Journal of Textile Research; the committee member of SMDTex, ERAMUS. The research work of Yan CHEN involves textile and garment design, garment manufacture management, sensory evaluation of textile and clothing. She has published more than 20 papers in key textile journals in the recent 5 years and supervised 5 PhD students and more than 15 master students. She has conducted one national research project (silk fabric performance research) and a number of provincial research projects in the area of interactive garment design system, evaluation and prediction of textiles and fashion products using intelligent system and management of clothing manufacture processes.

Plenary Medal Lectures - Thursday, July 8, 2021

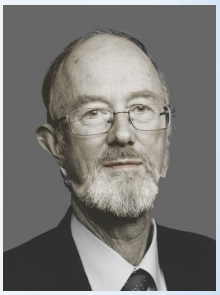
Topic of the Speech:
Regenerate Material from Textile Waste

Dr. Lei Yao
Hong Kong Research Institute of Textiles and Apparel
Hong Kong, China

Dr. Lei Yao obtained her Bachelor of Science from Zhejiang Medical University and Master of Science in Zhejiang University, China. Dr Yao received her PhD in Textile Technology from The Hong Kong Polytechnic University, Hong Kong. Her current research interests centre around: textiles-human interactions, textile technologies and industry sustainability. She is now leading a research team and doing applied research on high-performance textiles, water-less textile technologies and post-consumer textile recycle. She has considerable research experience of textile and clothing and insight into applied research, R&D roadmap and innovation strategy.

Topic of the Speech:
The Circular Economy for Textiles: Closing The Loop

Professor David James Tyler
Manchester Fashion Institute
United Kingdom



Prof. David James Tyler has a background in industrial physics and operations management before joining Higher Education. He is Professor of Fashion Technologies at Manchester Metropolitan University. Research interests when the UK had significant manufacturing were startup management and the simulation of clothing production: both flow lines and team-based systems. The interest in teamworking was then applied to product development and its relation to operational practices. From 2000-2004, he managed the North West Advanced Apparel Systems Centre, a European-funded initiative to support clothing and textile companies in NW England. More recently, his expertise in the product development process has influenced research into functional garments, including wearable technologies and sustainable supply chains. He has led University involvement in the EU-funded project: Resyntex, which was concerned with 'end-of-life' clothing/textiles and the circular economy. Specific contributions to that project included business modelling, consumer purchasing behavior, and consumer approaches to the disposal of unwanted products.

Plenary Medal Lectures - Thursday, July 8, 2021

Topic of the Speech:
Colour of Textiles and Clothing

Professor Tetsuya Sato
Kyoto Institute of Technology
Japan

Prof. Tetsuya Sato is teaching colour technology at the post-graduate course of in Kyoto Institute of Technology (KIT), Japan. He is the head of Master Course of Design. He graduated from KIT with a master degree in colour chemistry, and obtained his Ph.D from Otsuma Women's University with his research on colorimetric method for assessing colour fastness of textiles. He is interested in colour science, cognitive science, human interface, material technology, AI technology, fashion business and so on, which are relating to textiles and clothing. Therefore, he is extending his research in colour psychology, colour culture and colour business. Now he is trying to bridge the gap between researches on physical properties and human sensations in colour and clothing fields.

Topic of the Speech:
Solvent-Welding Fabrication of Silk Nanofibrous Aerogels for Environmental Applications

Professor Xiaoqin Wang
Soochow University
China

Prof. Xiaoqin Wang obtained his Bachelor's degree on Microbiology in Shandong University in 1991, Master's degree on Molecular Biology in Peking Union Medical College in 1997, PhD's degree on biochemistry in the University of Groningen, the Netherlands, in 1998, and postdoc training in Prof. David Kaplan's lab on biomedical engineering at Tufts University, the US, during 2005-2009. Prof. Wang was appointed as a research assistant professor of Tufts University in 2011, a distinguished professor of Soochow University in 2012. Prof. Wang has published over 60 peer-reviewed articles and more than 30 US and Chinese patents, mainly on silk biomaterials for tissue engineering and drug delivery. Prof. Wang is also actively engaged in the commercialization of research results. He is the co-founder of biotech companies, Ekteino Laboratory and Cocoon Biotech Inc., in the US, and is also the founder and president of Simatech Inc., a Chinese startup company located in Suzhou.

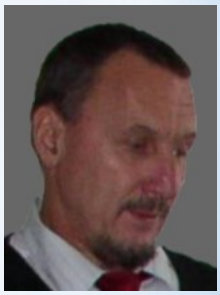
Plenary Medal Lectures - Thursday, July 8, 2021

Topic of the Speech:
Clothing System Design for Desired Thermal Comfort and Personal Protection

Professor Lijing Wang
RMIT University
Australia

Prof. Lijing Wang works at RMIT School of Fashion and Textiles, Melbourne, Australia. He received his PhD degree from the University of New South Wales, Australia. He worked as a Postdoctoral Research Fellow at RMIT University in 1999 and 2000, followed by more than 8 years working at Deakin University as the Research Academic, then Senior Research Fellow. Since 2009, he returned to RMIT University. Prof Lijing Wang currently leads the Smart Textiles research cluster and Saving Lives research stream at the Centre for Materials Innovation and Future Fashion. He has been the chief investigator in more than 30 funded research projects, and his publications reached more than 230. His key research areas of interest are smart and high-performance textiles; wearable technology; protective garments; clothing comfort; fibres and polymers material science, engineering and modelling; material functional design; and clothing supply chain sustainability.

Topic of the Speech:
Characterization and Ultimate Strength of Hybrid Glass Tapes



Professor Jiri Militky
Textile Faculty
Technical University of Liberec
Czech Republic

Prof. Jiri Militky, Prof. MSc. PhD., EURING, FEA. Education: 1993 University professor degree in the field of textile engineering, 1982 Ph.D. degree concerning of the properties of the modified polyester fibers, 1973 Engineer degree, graduated with honor at Textile Faculty. Work experience: 2013 - 2016 Head of Department of Material Engineering, 2009 – 2012 Vice dean for foreign affairs, 2003-2008 Dean of Textile Faculty, 2000 - 2002 Vice rector for science and foreign affairs at TU Liberec, 1994 - 1999 Dean of Textile Faculty, 1991- 1993 Vice rector for foreign affairs at TU Liberec, 1991 – 2012 head of Department of textile materials, 1976 - 1989 Research Institute of Textile Finishing, head of scientific development dept., 1973- 1976 State Textile Research Institute Liberec – research worker. Specialization: Research in the field of modeling of properties of fibers and textile structures. Research in the area of textile material engineering, metrology, and applied statistics.

Plenary Medal Lectures - Thursday, July 8, 2021

Topic of the Speech:
Assessment of Electrostatic Potential Resulting from Friction between Fabric Samples made of Natural Fibers and Fabric Samples made of Synthetic Fibers

Professor Uwe Reischl
Boise State University
USA

Prof. Uwe Reischl is a Professor in the Department of Community and Environmental Health at Boise State University, USA. Dr. Reischl is a public health physician with research interests in occupational health, ergonomics and human factors. He received his undergraduate and graduate training at the University of California at Berkeley obtaining the Ph.D. degree in Environmental Health Sciences from the School of Public Health. He received his medical training at the University of Ulm in Germany where he obtained the M.D/ Ph.D. degrees in clinical medicine. Professor Reischl's current international research collaborations include projects with the University of Zagreb, Croatia, Hong Kong University of Science and Technology, and Soochow University, China.

Plenary Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Electrospun Nanofiber and Nanoyarn for Hard and Soft Tissue Regeneration

Professor Xiumei Mo
Donghua University
China

Prof. Xiumei Mo is a professor of Biomaterials in Donghua University. She once had two years Postdoc experience in Kyoto University, three years research fellow experience in National University of Singapore, one year visiting professor experience in Aachen University of Applied Science and Technology. Her research work is electrospinning nanofiber and nanoyarn for different tissue regeneration, including skin, tendon, nerve, blood vessel, bone and cartilage tissue regeneration. She has published more than 450 papers, the papers were cited more than 11,000 times, her H-index is 51. She edited 11 books/chapters, she got the Science Technical Invention Awards from Shanghai Municipality(2008)，Science and Technology Progress Awards from State Department of People's Republic of China(2009), and Nature Science Awards from Shanghai Government(2015). She is the Committee Members of China Biomaterials Society and Vice Chairman of China Composite Materials Society Super-fine Fiber Branch.

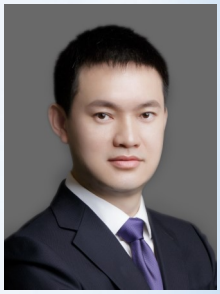
Plenary Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Melt Electrospun Composite Scaffolds for Healing Burn Wounds

Professor Budimir Mijovic
University of Zagreb
Croatia

Prof. Budimir Mijovic is employed as a full time professor and researcher at the Department of Basic Natural and Technical Sciences, Laboratory of Nanotechnology, at the University of Zagreb, Faculty of Textile Technology, Croatia. He finished his PhD degree in the field of biomaterials and bioengineering at the Faculty of Mechanical Engineering and Naval Engineering, University of Zagreb. After his PhD his research was focused on the mechanics of blood vessels and biorheology. His scientific areas of interest are: nanofiber electrospun biomaterials development for accelerated wound healing, design of multifunctional dermal electrospun scaffolds, investigation of new types of matrices for 3D cell culture, study of human limbal epithelial cells of electrospun nanoscaffold materials, human limbal epithelial cells cultured on versatile types of scaffolds.

Topic of the Speech:
Application of Supercritical Fluid Technology for Bio-imaging Guided Cancer Therapy



Professor Aizheng Chen
Huaqiao University
China

Prof. Aizheng Chen received his Ph.D. degree in Biomedical Engineering from Sichuan University in 2007. After postdoctoral research at The Hong Kong Polytechnic University for two years, he joined Huaqiao University, where he is now a professor and vice dean of College of Chemical Engineering, and director of Institute of Biomaterials and Tissue Engineering. He also serves as a committee member of Chinese Society for Biomaterials, and the secretary-general of Chinese Society for Biomaterial-Composite Materials Branch. He was a visiting research professor for a year in Prof. Ali Khademhosseini Lab at Harvard medical school. He has been granted 8 National projects, and has published more than 100 peer-reviewed publications; His research interests are the application of biomaterials for drug delivery systems using supercritical fluid technology, tissue engineering and regenerative medicine. He was listed in 2020 National Hundred, Thousand and Ten Thousand Talent Project and awarded with an honorary title "Young and mid-aged expert with outstanding contribution".

Plenary Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Bio-inspired Nano-textiles for Combating Future Challenges

Professor Rajesh Mishra
Czech University of Life Sciences Prague
Czech Republic

Prof. Rajesh Mishra works at the Czech University of Life Sciences Prague, Czech Republic. His research areas are nanomaterials and nano-textiles, textile structural composites, green composites, nanocomposites, biomechanical engineering of fibrous structures, thermo-mechanical characterization of materials etc. He has about 165 publications in international journals and about 270 presentations in international conferences. His teaching and research activities include subjects based on nanotechnology, bio-materials, structural mechanics of fibrous structures in general and 3D woven structures in particular, textile quality characterization, engineering of textile structures, biomechanics of apparel textiles etc. He is responsible for internationals students education and research at the faculty of engineering. Till date he has successfully guided 5 PhD candidates leading to award of title. The graduates are highly placed in academia and industry around the world. At present a few more are continuing research in leading areas of technology. He has educational and research cooperation around the globe.

Topic of the Speech:
The Physical Properties of Hybrid Composite Materials for Strengthening Underwater Structures

Professor Seung Kook An
Pusan National University
Korea

Prof. Seung Kook An obtained his Ph.D. at the Fiber and Polymer Science Program, North Carolina State University in 1992. After working at National Industrial Research Institute for two years, he had been a professor of the department of Organic Material Science and Engineering at Pusan National University until 2020. He served as a director of Research Institute of Industrial Technology from 2011 to 2013, and has been the director of RIS in textile material for transportation vehicle from 2011. He has been the chairman of Korea Association of Tech Textile Industry (KATTI) from 2017. He served as the Korean delegate for ISO TC94/SC13 and ISO TC94/ SC14 for 20 years. He served as a Vice President of Korean Fiber Society in 2010 and 2018. His research areas are protective clothing, physical properties of industrial textile products, comfort properties of industrial fabrics.

Plenary Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Three-dimensional Human Body Scanning and Measurement

Professor Yueqi Zhong
Donghua University
China

Prof. Yueqi Zhong is regarded as a specialist in the area of virtual clothing and virtual human body. He joined the faculty of the College of Textiles, Donghua University in 2005 after completing his postdoctoral research at the University of Texas at Austin. Previous to this he received his Ph.D at Donghua University in 2001. His research continues to address topics on virtual clothing, online sizing, fit evaluation, and virtual human body. He was granted NSFC (National Natural Science Foundation of China) funding three times for his research work on digitalizing the physical world in the cyberspace. He is also the PI of many projects granted at provincial or ministry level. In 2014 he was awarded the nationwide prize for his contribution to the textile and apparel industry. His patents on solving the problem of “virtual reality towards online dressing” won him the prize of Shanghai Science and Technology Award in 2013.

Topic of the Speech:
Evaluation of Functionality of Hemp Clothing

Dr. Malgorzata Zimniewska
Institute of Natural Fibres & Medicinal Plants-national Research Institute
Poland

Dr. Malgorzata Zimniewska is scientist at the Institute of Natural Fibres & Medicinal Plants. Her main area of interest is to develop of natural lignocellulosic fiber processing, technologies and evaluation, to meet the specific needs of different fiber applications including pro-healthy textiles and composites. She has been a Member of the Textile Institute Council, Member of Advisory Council of BIOEAST Board - Central and Eastern European initiative for knowledge-based Agriculture, Aquaculture and Forestry in the Bioeconomy, She serves as Vice Chair of Quality Control for European Commission in frame programme H2020, Research Executive Agency, Future and Emerging Technologies, Brussels 2018 – 2020. She served as a Chair of DNFI - Discover Natural Fibers Initiatives Network from 2013 to 2016, also as an Expert of: Task Force on the Challenges from Competing Fibers of International Cotton Advisory Committee in USA; European Technology Platform for the Future of Textiles and Clothing, the National Centre for Research and Development in Poland.She has led many international, European and national projects. She has authored and co-authored more than 160 scientific articles and 5 patents.

Plenary Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Establishing the Porosity into Membrane Multi- Layers Woven Fabrics on Water-Wastewater for Healthcare

Professor ElSayed Ahmed ElNashar
Kaferelsheikh University
Egypt

Professor ElSayed Ahmed ElNashar Full-Professor of textiles Apparel, Kaferelsheikh University, Egypt. Born in 19 /8/1965. Have Ph.D. 2000, Msc.1995, Bsc.1989, Helwan University. Diploma1985advanced industrial textiles institute. He holds several academic administrative positions: Dean, Vice Dean, Head of Department, He has many textiles patents, Member of international scientific committees. Development of Faculties of Education, commissioned of Supreme Council of Egyptian Universities. Has design books published in Germany and Ukraine. Has published over 205 scientific Articles. Editorial board member & Reviewer for more 115 journals, organizer for more than 95 conference and workshop over the world, Founder and editor two scientific journals. And Smartex Conference Egypt. Member of the editorial board of several international journals and conferences, He has made many scientific agreements with European &Africa universities.

Topic of the Speech:
An Approach to Achieve High-performance Protective Gloves: Knowledge Gaps and Recent Advances

Professor Guowen Song
AESHM department
Iowa State University
USA

Prof. Guowen Song received his Ph.D. degree in Textile Engineering, Chemistry, and Science at North Carolina State University's College of Textiles. He is currently the Noma Scott Lloyd Chair in the Department of Apparel, Event and Hospitality Management (AESHM) in College of Human Sciences in Iowa State University. Song's academic interest is in functional textile materials and protective clothing and systems to improve human health and safety. His interdisciplinary research includes the study of novel textile materials, system design, hazards simulation, PPE contamination, the analysis and prediction of clothing performance, and the development of new methods and standards. These studies include lab simulations, instrumented manikin technology, and unique designed human trials, including 3D body scanning and the human motion analysis approach. Dr. Song has published over 130 scientific papers in peer-reviewed journals and conference proceedings. He authored 3 books and contributed a dozen chapters to books in his field of study.

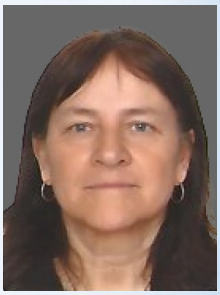
Medal Lectures - Wednesday July 7, 2021

Topic of the Speech:
A Highly Effective π-π Stacking Strategy to Modify Fibre and Multiple Functionalization

Dr. Xuqing Liu
The University of Manchester
UK

Dr. Xuqing Liu obtained his BS in Chemistry at the Lanzhou University, China. He went on to the Chinese Academy of Sciences to start his research in developing new synthetic lubricates and tribology chemistry and physics. After several years in LICP, he moved to the Hong Kong Polytechnic University, as a PhD student studying the smart textiles and surface grafting polymer brushes. During 2013-2014, he was a visiting PhD student at the University of Manchester. Completing his doctorate in 2015, Xuqing joined the School of Materials at the University of Manchester as an independent Research Fellow, where he investigates the Fibre Surface Molecular Engineering. Dr. Liu is the Chairman of Chinese Textile and Apparel Society(CTAS—UK). He services as an editor for Advanced Fiber Materials, Journal of Composites Science, and Associate Editor of Journal of Fiber Bioengineering and Informatics.More than 70 research papers from his group have been published in high-quality journals, such as Advanced Materials, Advanced Functional Materials, Nano Letters, Small, NPG Asia Materials, Chemistry-An Asian Journal, Nanoscales, and Journal of Materials Chemistry.

Topic of the Speech:
Hybrid Line Lighting System Containing Luminescent Layer



Dr. Dana Kremenakova
Dept. of Material Engineering
Faculty of Textile Engineering,
Technical University of Liberec
Czech Republic

Dr. Dana Kremenakova Research in the field of thermal transport properties and barrier properties of fibrous structures. Development of special metrology, application of image analysis. Prediction of geometrical and mechanical properties of fibrous assemblies. Modeling of textile structures in line fiber – yarn – fabrics. Prediction of thermal comfort. Optical and mechanical properties of side emitting polymeric optical fibers and their application in textile structures. Special properties of metalized lightweight nonwovens. Teaching subjects：Experimental Data Analysis, Metrology and quality evaluation, Textile Testing, Computer Aided Textile Design, Experimental Analysis of Yarn Structure, Cotton spinning, Wool spinning.

Medal Lectures - Wednesday July 7, 2021

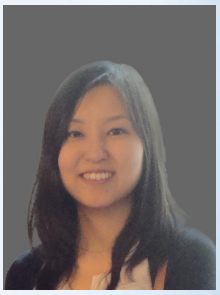
Topic of the Speech:
Silk-based Controllable Drug Delivery and Biomedical Applications

Professor Maobin Xie
Guangzhou Medical University
China

Prof. Maobin Xie received his PhD degree of Biomedical engineering from The Hong Kong Polytechnic University, Hong Kong, China in 2016 and M.S. degree of Microbiology from Huaqiao University, Xiamen, China in 2012. He joined Department of Biomedical Engineering, School of Basic Medical Science, Guangzhou Medical University, Guangzhou, China since Nov 2016, and as a professor since Feb 2019. He is Research Fellow in Biomaterials Innovation Research Center at Brigham and Women's Hospital at Harvard Medical School, USA since Dec 2019. His research interests include biomaterials, nanomedicine, drug delivery, volumetric bioprinting and living materials 3D printing. He has published over 30 peer-reviewed research work include Science Translational Medicine, Biomaterials, Applied Materials Today, etc.

Medal Lectures - Thursday July 8, 2021

Topic of the Speech:
Designing Key Points of Attractive Clothing for Mass Customization



Dr. KyoungOk Kim
Faculty of Textile Science and Technology
Shinshu University
Japan

Dr. KyoungOk Kim is an Associate Professor in Department of Advanced Textile and Kansei Engineering, Faculty of Textile Science and Technology, Shinshu University and Division of Fashion and Smart textile, Institute for Fiber Engineering (IFES), Interdisciplinary Cluster for Cutting Edge Research (ICCER), Shinshu University, Japan. She received her Ph.D. from Shinshu University in Textile Engineering. Her research interests are clothing engineering, textile engineering, and kansei engineering for both apparel and textile fields.

Medal Lectures - Thursday July 8, 2021

Topic of the Speech:
Fibre-based Nanocomposites with Enhanced Micro-nano Interface for Functional Textiles

Dr. Xin Wang
RMIT University
Australia

Dr. Xin Wang received his PhD from Deakin University in 2010. After a Postdoctoral Fellowship in the Hong Kong Polytechnic University, he joined in Wuhan Textile University as an Associate Professor under the 'CHUTIAN Scholar' program in 2011. He was then awarded Vice-Chancellor's Research Fellowship from the University of Southern Queensland in 2014, and he joined RMIT University as a Vice-Chancellor's Senior Research Fellow in the School of Fashion and Textiles in 2015. Dr. Wang became an academic staff titled as Senior Lecturer in the Centre for Materials Innovation and Future Fashion (CMIFF) at RMIT University in 2019. Dr. Wang's research interests include the innovative manufacturing technology to produced nanofibers and textile-based wearable electronics, green method to reuse wasted textile materials, surface modification and surface science of fibrous materials, and evaluation technology for thermal and moisture comfort.

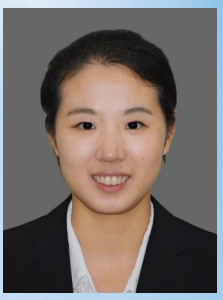
Topic of the Speech:
Research on Dynamic Pressure Distribution of Women Wearing Sports Bra in Running State Based on Co-simulation

Dr. Long Wu
School of Apparel and Art Design
Xi'an Polytechnic University
China

Dr. Long Wu obtained his PhD from the Hong Kong Polytechnic University in 2013. He is currently serving as associate professor in School of Apparel and Art Design of Xi'an Polytechnic University. He teaches subjects about Apparel Production Technique, Apparel Machinery, Anthropometric Technology and Application etc. As the main participant of the National Natural Science Foundation of China in 2013 (61303120), Dr. Wu carried out research work in Research Center of Apparel Engineering and Technology. Over the last several years, he received outstanding student papers competition award in TBIS 2011 and outstanding research papers competition award in TBIS 2014. Also, Dr. Wu was a member of the expert committees of the Garment Industry Association in Shaanxi Province between 2016 and 2019. Funded by China Scholarship Council in 2019, Dr. Wu became a visiting scholar in the School of Fashion and Textiles at RMIT University in Melbourne, Australia from October 2019 to May 2020.

Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Photocatalytic Properties of Self-cleaning Fabrics Coated Through a Facile Method



Dr. Chunhong Zhu
Faculty of Textile Science and Technology
Shinshu University
Japan

Dr. Chunhong Zhu is an Associate Professor in the Department of Advanced Textile and Kansei Engineering, Faculty of Textile Science and Technology, Shinshu University, Japan. She received her Master's degree from Soochow University in 2010, and Ph.D. from Shinshu University in 2014. Her research interests include three-dimensional fabrics, functional and smart textiles.

Topic of the Speech:
Approaches to Development of Thermal Insulation Layers

Dr. Mohanapriya Venkataraman
Technical University of Liberec
Czech Republic

Dr. Mohanapriya Venkataraman is a passionate textile material scientist, working as an Assistant Professor at the Department of Material Engineering, Faculty of Textile Engineering, Technical University of Liberec, Czech Republic. Hailing from Chennai, India, she is a holder of a Ph.D. and multiple Post-graduations in Textile Material Engineering, Fashion Technology, and Garment Manufacturing Technology. Her teaching and research areas include Textile Materials, Thermodynamic Analysis, Micro and Nanoporous Materials, Heat Transfer, Polymers, and Composites. She is a leader and team member of multiple international research projects funded by the EU, the Technology Agency of the Czech Republic (TA ČR), and the Czech Science Foundation (GA ČR). She has authored and co-authored more than 60 scientific papers in peer-reviewed journals; more than 75 conference publications; more than 10 keynote speeches; and more than 30 book chapters. She has won international recognition as "Outstanding Researcher" in multiple forums like SGS, TBIS, etc., Prior to endeavoring into academics and research, she worked as an executive in Material Quality Assurance in an International Textile behemoth. She is certified in ISO, Lean Six Sigma, 5S, Kaizen, and Silverplus Limited brands testing. She was recently profiled in TA.DI magazine of Technology Agency of the Czech Republic (TA ČR) as 1 of 3 female researchers as an example breaking the stereotype of a traditional scientist. She is an ambassador for INOMICS and "Study in the Czech Republic" initiatives. She is very passionate about woman empowerment and sustainability.

Medal Lectures - Friday July 9, 2021

Topic of the Speech:
The Distributed Traceability Model (APO) for Industrial Products Based on Blockchain Technology

Aris Huang
Founder of Chengdu SwiftChain Technology Co., Ltd.
Visiting Associate Professor of Xihua University
China

Aris Huang, Founder of Chengdu Swiftchain Technology Co., Ltd., Senior system architect, Visiting associate professor of Xihua University, Columnist of "JINSE" and "8BTC"and "WHOSHIPM" and "WEIYANGX", Blockchain expert of AISINO Co., Ltd, Senior researcher of Blockchain Economic Research Center of Sichuan Quality Development Research Institute, Blockchain expert of Beijing Informationization and Industrialization International Information Technology Research Institute, Chief Blockchain Consultant of Gandao Intelligence Co., Ltd, The initiator and technical leader of the project "Application of Blockchain Technology to Improve China's Infectious Disease Surveillance System" of NSSFC, and the initiator and solution writer of "Blockchain-based Industrial Products Anti-counterfeit Traceability Platform" of 2020 Industrial Internet Innovation and Development Project-Blockchain Public Service Platform Project of MIIT, core team member of "Non-Bank Financial Business Credit Technology Path Research" (2019) of Baihang Credit, and former CRM system expert of AsiaInfo (China) Co., Ltd. He has participated in more than 20 large-scale domestic and foreign large-scale telecommunications, finance and blockchain industry application projects, and published many high-quality, industry-influential papers and Internet articles.

Topic of the Speech:
Highly Porous Poly(L Lactic Acid) Nano Fibres and Applications

Dr. Jiashen Li
The University of Manchester
UK

Dr. Jiashen Li is a Lecturer in Textile Science & Engineering in the Department of Materials. His research interests involve the science and technology underpinning processing-structure-property relationships in functional fibers and textiles; including nano fibres, bio-functional fibres, smart fibres and textiles, e-textile, and structural fibre-composites. With more than ten years' experience on fibre spinning, he has significantly expanded his studies of advanced functional polymer fibres and textiles. Dr Jiashen Li obtained his PhD in Polymer Materials (Physics) from Tianjin University (China) in 2001. He then spent thirteen years conducting biomaterials and fibre spinning in The Hong Kong Polytechnic University (Hong Kong), before joining the University of Manchester in 2015.

Medal Lectures - Friday July 9, 2021

Topic of the Speech:
Silk/magnesium Filaments Reinforced Nerve Guidance Conduits with Composite Structures

Professor Gang Li
College of Textile and Clothing Engineering
Soochow University
China

Prof. Gang Li is currently a full professor at the National Engineering Laboratory for Modern Silk, Soochow University, China. Dr. Li is the 15th high level talent of “Top six talent peaks” and selected talent of “Double Creative Plan" in Jiangsu province of China. Dr. Li received his MEng. from Donghua University, Shanghai, China, and obtained his Ph.D. in Biomedical textiles and Engineering from the Hong Kong Polytechnic University. Prior to his current academic position, Dr. Li has been served at DuPont China Holding Co., Ltd. in Shanghai. Dr. Li presented talks, organized symposia and workshops at various international scientific conferences, etc. Dr. Li’s research interests focus on biomedical materials, implants and devices using combination of biomaterials, medical and textile engineering, as well as functional textiles.

Topic of the Speech:
Structural Design and Surface Functionalization of the Surgical Sutures for Promoting Tissue Healing

Dr. Jifu Mao
Donghua University
China

Dr. Jifu Mao has been a distinguished research fellow in College of Textiles at Donghua University since 2019. He received his BS degree from Beijing University of Chemical Technology (BUCT) in 2009. After completing his MSc degree in Materials Science and Engineering from BUCT (2012) and Ph.D. degree in Experimental Medicine from the Department of Surgery at Université Laval, Canada (2017), he worked in the Research Center CHU of Quebec-Université Laval as a postdoctoral fellow from 2017 to 2019. His current research involves electrically conducting polymeric bio-textiles, electro-mechanical bioreactors, and their biomedical applications. His research has been focusing on design and preparation of flexible conductive polymers/fabrics to electrically stimulate cells or tissues for improved tissue regeneration or functional remodeling. He has published more than 30 peer-reviewed papers in the journals such as ACS Nano, Materials & Design, Journal of Material Chemistry B, applied for 7 patents and contributed two book chapters.