

Part 3. About Speakers and Session Chair

Opening Ceremony



Ms. Gill Caldicott
Director East China, British Council
Consul (Culture and Education),
British Consulate General
Shanghai

Gill Caldicott is the Director of the British Council in East China, with responsibility for leading the UK's cultural relations and educational exchange work in the three Eastern provinces of Anhui, Jiangsu and Zhejiang, as well as Shanghai Municipality. She holds the diplomatic rank of Consul where she manages the UK's education and cultural relationship on behalf of the British Consulate General Shanghai.

She was appointed to the role in August 2020, having previously served a British Council Director Sri Lanka. She has extensive leadership experience having worked in South Asia, Europe and the Middle East during a 30-year career with the British Council.

Gill believes strongly in the power of education and culture, as a bridge between peoples of different nationalities, and has seen first hand the opportunities, trust and understanding that can be created through such exchanges. In her spare time, Gill enjoys travelling, visiting cultural heritage sites and exhibitions, wildlife photography and reading.



Professor Alan Marshall
Consortium UK Chair, Head of EEE
University of Liverpool

Professor Alan Marshall is the Chair of UK-Jiangsu 20+20 World Class University Consortium.

He holds the chair in Communications Networks at the University of Liverpool where he is director of the Advanced Networks Group. He is a senior member of IEEE and a Fellow of the IET.

He has spent over 24 years working in the Telecommunications and Defence Industries. He has been visiting professor in network security at the University of Nice/CNRS, France, and Adjunct Professor for Research at Sunway University Malaysia.

He has published over 200 scientific papers and holds a number of joint patents in the areas of communications and network security. He has formed a successful spin-out company Traffic Observation & Management (TOM) Ltd specialising in intrusion detection & prevention for wireless networks. His research interests include Network architectures and protocols; Mobile and Wireless networks; Network Security; high-speed packet switching, Quality of Service & Experience (QoS/QoE) architectures; and Distributed Haptics.

University Presidents Panel



Professor Wiebe van der Hoek
Executive Pro Vice Chancellor
University of Liverpool

Wiebe van der Hoek is Professor of Logics for Multi-Agent Systems. He came to take up a Chair at the Department of Computer Science of Liverpool in 2002, and was Head of Department 2008 - 2012. In 2014 he became Head of School (now Dean) of the School of Electrical Engineering, Electronics, and Computer Science.

His research interest is in Dynamic Epistemic Logic, that is, logics to reason about information change. He also studied those logics in Game Theoretic settings. Since 2012 he is (co-) Editor-in-Chief of Springer-Nature flagship journal in the Philosophy of Science, and since 2002 he co-chairs LOFT, a biannual conference on Logic and the Foundations of Game and Decision Theory.

He is currently one of the chairs of the Digital Steering Group at UoL, and chairs the Digital Alder Hey / University of Liverpool Steering group. He is member of the Steering Committee of LCR 4.0, as well as a Director of Sensor City.

Title

Liverpool Responds: Transnational Collaborative Research & Education Post Covid-19

Abstract

1. How University of Liverpool responds to teaching and what makes us unique.
2. How University of Liverpool responds to collaborative research and what developments we are proud of.
3. How University of Liverpool values Our Partnerships and Visiting Researchers.



Professor Yuan Shouqi
Chair of Jiangsu University
Council
Jiangsu University

Yuan Shouqi is the professor of Research Center of Fluid Machinery Engineering and Technology. He has been the Chair of Jiangsu University Yuan since 2016, and had been the President of Jiangsu University from 2006 to 2017. Prof. Yuan was the senior visiting scholar at Cranfield University from 1995 to 1996.

Prof. Yuan's research field is in Theory, Design, and CFD of Drainage and Irrigation Machinery as well as Fluid Machinery. He has presided over the completion of more than 30 national projects such as key projects of the National Natural Science Foundation of China, the National 863 Project, and the National Science and Technology Support. Currently, Prof. Yuan is in charge of 4 projects including the National Key Research and Development Program and the National Natural Science Foundation of China.

He is currently Director of China National Research Center of Pumps, Director of the National International Joint Research Center for Energy-saving Technology of Fluid Engineering Equipment, Deputy Director of the Teaching Steering Committee for Energy and Power Specialty of the Ministry of Education, Chief Editor of Journal of Drainage and Irrigation Machinery Engineering, Deputy Director of Editorial Board of Transactions of the Chinese Society for Agricultural Machinery, Deputy Director of Editorial Board of Transactions of the Chinese Society for Agricultural Engineering, Deputy Director of Editorial Board of International Journal of Agricultural and Biological Engineering, etc.

Title

Opening Wider with Full Communication & Sharing Achievements, High-Level JS-UK Cooperation Steps into a New Era

Abstract

The Development History and Status Quo of JSU; Overview of International Cooperation of JSU; Achievements between JSU and UK; JSU's Proposals of Cooperation with UK.



Professor Paul Inman
PVC International
University of Reading

Paul joined the University of Reading in August 2020, bringing a wealth of experience drawn from a diverse career in higher education, media and politics. As Pro-Vice-Chancellor (International), he leads on global engagement and international student recruitment. He is developing strategies to strengthen the University’s international profile and expand its global connections. He is a member of the University Executive Board.

Paul previously worked at Oxford Brookes University, where he served as Pro-Vice-Chancellor (International Recruitment) and Dean of the Faculty of Technology, Design and Environment. He was the leading architect behind Oxford Brookes Global, which introduced a strategically integrated approach towards international student recruitment, global partnership and transnational education.

Prior to working in Oxford, Paul held senior management positions at Falmouth University and Bournemouth University and outside of academia, enjoyed success as a political campaigner, filmmaker and television producer. Alongside broadcast work, he produced cinema commercials, films and educational videos for leading mental health charities, the Royal College of Psychiatrists, and the Youth Justice Board. He managed Storylines, a filmmaking project in West Africa and the UK for the British Council and The Mental Health Testimony Project – a filmed oral history of long-term psychiatric patients for the British Library.

Paul retains a keen interest in the promotion of interdisciplinary work within the arts, humanities and technology fields. In 2016, he led the initiative to establish a Confucius Institute in Oxford, is Chair of Photography Oxford, an international photography festival, and was a founding director and chair of the governing board of University Technical College Swindon. He also served as a member of council at Ruskin College, Oxford and as a board member of the Oxfordshire Local Enterprise Partnership.

Title

What Successful Transnational Education Teaches us

Abstract

In this presentation, I will briefly discuss how we are using the success of our longstanding TNE partnership in Nanjing to address the challenges we face in the current global pandemic and outline our plans for further future development of the partnership.



Professor Xu Shoukun
Vice President
Changzhou University

Prof. Xu Shoukun is the Vice President of Changzhou University; he obtained the PhD. from China University of Mining and Technology. Prof. Xu Shoukun mainly engaged in higher education management, teaching and education of computer science. He has presided over three provincial level science and technology projects, and the formulation of two local standards in Jiangsu Province, and published more than 30 papers and compiled 3 textbooks. He was elected the member of Jiangsu Province “333 Project”, and won Outstanding Young Teachers of “Blue Project” in Jiangsu Province, two Second Prizes and three Third Prizes of Provincial Science and Technology Progress, Second Prize of National Teaching Achievement, one Top Prize of Jiangsu Provincial Teaching Achievement and one Second Prize.

Title

International Cooperation and International Students Education at Changzhou University in the Post Covid-19 Era



Prof Saul Tendler
Deputy Vice Chancellor and
Provost
University of York

Professor Tendler is the Deputy Vice-Chancellor and Provost of the University of York. He has responsibility for planning and resource allocation across the University and for the delivery of the University's Strategic Plan. In addition, he is the academic lead for the University's internationalization strategy, developing strong networks and appropriate partnerships to enhance the reputation of the University

Professor Tendler joined the University of York on 1 September 2015. He gained a BSc in Pharmacy at the University of Manchester in 1982 and was awarded a PhD from the University of Aston in 1986. He was a Medical Research Council Training Fellow at the National Institute for Medical Research, Mill Hill, before being appointed to a Lectureship at the University of Nottingham. He was subsequently promoted to Professor of Biophysical Chemistry in 1998. From 1999 to 2003, Professor Tendler was Dean of the University of Nottingham's Graduate School. For the next six years he headed Nottingham's School of Pharmacy before becoming a Pro-Vice-Chancellor in 2009.

Professor Tendler has significant experience of research and technology transfer. He was a founding director of Molecular Profiles Ltd. His research has resulted in more than 200 peer-reviewed publications, the award of a DSc and has been recognized through a number of prizes. He has served on many funding council and research council boards and committees and was Chair of the MRC/BBSRC/EPSRC Discipline Hopping Panel. He is a Fellow of the Royal Society of Chemistry, and was designated a Fellow of the Royal Pharmaceutical Society of Great Britain in 2000.



Prof Simon Pollard
Pro-Vice- Chancellor
Cranfield University

Professor Simon Pollard DSc FREng has directed Cranfield's environmental science and technology capability for the last 15 years. An environmental engineer with 600 scientific contributions and 160 journal publications to his name, Pollard has been one of the UK's leading proponents of environmental risk management; leading institutes for Defra and the Research Councils; drafting Government guidelines on risk management; and championing research centres in environmental risk. Pollard's thesis is that good risk governance makes organisations, systems and communities resilient. It delivers the stakeholder confidence, sustained financial value and reputational capital that is essential for the green economy to flourish.



Dr David Pilsbury
Deputy Vice Chancellor
Coventry University

David leads international engagement for the University through the International Office, Academic Partnership Unit and Centre for Global Engagement. He is responsible for the University's international campuses, joint-ventures and trans-national learning. David led establishment of the University's London campus and has embedded and developed international outreach programmes across the University. David was previously chief executive of the Worldwide Universities Network and was head of research policy at HEFCE.



Prof Iain Gillespie
Pro-Vice- Chancellor
University of Leicester

Iain Gillespie is Pro-Vice-Chancellor, Research and Enterprise at the University of Leicester, elected Vice-Chancellor of University of Dundee. Previously he was Director of Science and Innovation at the Natural Environment Research Council, and was lead director across the seven UK research councils for international research. He is honorary visiting professor at University College London, honorary professorial fellow at the University of Edinburgh, a Fellow of the Royal Society of Edinburgh and a Fellow of the Royal Society of Biology.



Prof Helen Griffiths
Pro-Vice- Chancellor for research
and innovation
Swansea University

Professor Helen Griffiths was appointed Pro Vice-Chancellor with responsibility for Research & Innovation at Swansea University in August 2020. Prior to this, she was Executive Dean of the Faculty of Health and Medical Sciences at the University of Surrey. Previously, Helen was Pro Vice-Chancellor International following from five years as Executive Dean of Life & Health Sciences at Aston University. Helen has been a member of the respective University Executive Boards and Councils since 2009.

Helen is responsible for leading the development, implementation and continuous improvement of Swansea University's Research & Innovation Strategy.

Helen is an alumnus of Bath University where she gained a BSc (Hons) in Biochemistry, and of Birmingham University (PhD from the Faculty of Medicine). Helen has published over 170 peer-reviewed papers. She has pursued an increase in understanding of mechanisms of inflammation and degenerative diseases that increase with ageing.

	<p>Helen was awarded a personal Chair in Biomedical Sciences in 2005 from Aston University. She founded the Aston Centre for Healthy Ageing in 2009 and has received prizes for research. Helen’s research has always been collaborative in nature, with clinicians and industrial partners, with the goal to develop new research talent and knowledge, which together have a positive impact on healthy ageing.</p> <p>Helen is a Fellow of the Royal Society of Biology and a member of the Editorial Board for Redox Biology. She has previously served on the Boards of Surrey Sports Park and of Surrey County Council Health and Wellbeing Board. She has been a member of the Council of Governors for two major Health Trusts in Birmingham and Guildford.</p>
 <p>Professor Jerry Roberts Deputy Vice Chancellor- Research and Enterprise Swansea University</p>	<p>Professor Jerry Roberts obtained a BA in Botany from the University of Oxford and a PhD in Plant Cell Biology from the University of Cambridge.</p> <p>After completing his postgraduate studies he joined the University of Nottingham as a Lecturer and was awarded a personal Chair in Plant Biology in 2000. During his career at Nottingham he was Head of the School of Biosciences, Dean of the Graduate School, and Assistant Pro-Vice Chancellor for Research before joining the University of Plymouth as Deputy Vice-Chancellor for Research and Enterprise in February 2017.</p>
 <p>Prof Phil Gilmartin Pro-Vice-Chancellor International University of Hull</p>	<p>Professor Philip Gilmartin is Pro-Vice Chancellor International at the University of Hull with responsibility for the University’s international strategy and global engagement. Phil joined the University of Hull in 2019 from the University of East Anglia (UEA) where as Pro-Vice Chancellor for Science, he was responsible for strategic oversight of education and research in the Faculty of Science. Between 2008 and 2011, Phil was Principal of St Mary’s College Durham University providing strategic leadership of the College on student experience, internationalisation, academic community, and alumni relations. Previously, at the University of Leeds as Pro-Dean for Research in the Faculty of Biological Sciences, he led on Faculty research strategy for the Research Assessment Exercise in 2008.</p> <p>Phil is a plant geneticist, his research focuses on the molecular genetics of flower development and plant breeding systems. He gained a BSc in Genetics from the University of Leeds, has a PhD from Warwick University, and spent four years undertaking Post-Doctoral Research at The Rockefeller University New York, before returning to the UK in 1991 to a faculty position at the University of Leeds.</p>

Academic Panels

Advanced Manufacturing Panel



Professor Trevor Toman
Head of Metrology
Coventry University

Trevor Toman has worked in the manufacturing industry since 1975, working extensively in the calibration and measurement disciplines within laboratories. In 1990 Trevor commenced working in the motor manufacturing industry in Coventry. During this period, he managed various teams for the launch of new vehicles and various new measuring technologies and facilities; including large and medium sized CMM facilities and laser in-line measurement projects. Trevor's last post held before joining Coventry University was Manager of the BIW Manufacturing Tool room, Measurement and Geometry Departments.

Trevor joined Coventry University in 2006 to launch and manage the new Metrology Development. Since joining CU Trevor has developed working relationships for delivery of training and education and research in metrology to a wide range of organisations, both nationally and internationally. Trevor has authored and delivers a Foundation Degree in Metrology at Coventry University, where he now holds the post of Professor and Head of Metrology within the IFTC, AME, Faculty of Engineering, Environment and Computing.

The presentation, which will be jointly delivered to the audience himself and Dr Hua Guo, shall briefly introduce the Metrology Group in the AME institute, and share some successful experiences via case studies. With the hope to bring some inspirations to the audience, the group will also welcome potential partners from academic and industrial background, to explore further collaboration opportunities together.

Title

The significance of precision metrology in Advanced Manufacturing; successful case studies in academic research and industrial R&D projects, from Metrology Group, Institute for AME, Coventry University (Tentative)

Abstract

The presentation will briefly introduce the Metrology Group in the AME institute, Coventry University, also share some of its successful experiences via case studies.

Having been working close with industrial partners, including but not limited to automotive and aerospace OEMs, SMEs, Prof. Toman and the team have successfully applied the principle of precision manufacturing metrology and measurement uncertainty budgeting to various projects, received extraordinary positive appraisal and continuously attention from various industrial sectors. The group also has established substantial experiences working with Innovate UK and SMEs in delivering KTPs, also commercial consultancy works.

Hopefully those case studies will inspire the audiences, and the presentation will bridge CU metrology at AME with the potential partners in Jiang Su, China, so that can explore further opportunities together.



Dr. Hua Guo
Researcher Metrologist
Coventry University

Dr Hua Guo acquired his BSc. in Mechanical engineering and automation at Nanjing University of Science and Tech., Jiang Su, then he came to the UK, where he achieved his MSc. in Automotive Engineering at Coventry University. At Coventry, he was also rewarded with a PhD in Mechanical and Automotive Engineering, the research area was finite element modelling, simulation and analysis on Aircraft tyre and rubber-like materials.

Since 2014, He works under Professor Trevor Toman, as a researcher and metrologist in the Institute for Advanced Manufacturing and Engineering (AME), taking the responsibilities in developing and delivering academic-industrial collaborated projects, funded by Innovate UK, EPSRC, other public and private funding bodies from the metrology perspective. He manages the AME metrology laboratory, under the guidance of ISO 17025 standard towards UKAS accreditation, also participates a lot and leads some of the industrial orientated commercial metrology consultancy activities, including product and process development, problem solving, for local SMEs and OEMs in various industrial sectors. He also hosts international exchange events at AME, welcomed numbers of visitors, including delegates from MIIT China for experience sharing and open discussions for collaborations.

Thanks to those valuable experiences, his areas of interests and expertise have expanded to Dimensional Metrology and Quality Control, Product, Manufacturing and Metrology Process Development, CAE simulation and correlation, Laboratory Management, International Collaboration in Higher Education and Research.

The presentation, which will be jointly delivered to the audience by Prof. Toman and himself, shall briefly introduce the Metrology Group in the AME institute, and share some successful experiences via case studies. With the hope to bring some inspirations to the audience, the group will also welcome potential partners from academic and industrial background, to explore further collaboration opportunities together.

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Professor Sun Lining
Soochow University

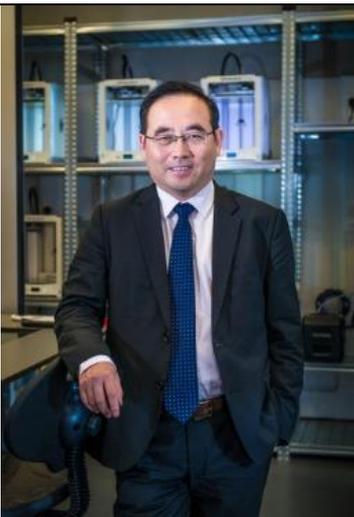
Prof. Lining Sun received the B.S. degree in Mechanical Engineering, the M.S. degree, and the Ph.D. degree in mechatronics engineering from the Harbin Institute of Technology, Harbin, China, in 1985, 1988, and 1993, respectively. He is director of Robotics and Microsystems Center in Soochow University, and a Dean of College of Mechatronic Engineering in Soochow University. He is also a Professor at the State Key Laboratory of Robotics and Systems, Harbin Institute of Technology. He was supported by Program for Changjiang Scholar of the Ministry of Education of China and the China National Science Fund for Excellent Young Scholars. He was an Expert of Robotic Technology in the Tenth Five-Year “863” Program of China, and a main group leader of MEMS major projects in the Tenth Five-Year “863” Program of China, and an expert of Advanced Manufacturing Technology Expert Group in the 11th Five-Year “863” Program of China. His current research interests include micro and nanorobotics, advanced robot and control, and electromechanical fabrication equipments. He has directed more than 20 “863” Program, “973” Program, and National Natural Science Foundation of China. He won two Second Class Prizes for Science and Technology Progress of China and three Provincial First Class Prizes for Science and Technology Progress. He has published more than 300 academic papers and has authorized more than 20 invention patents.

Title

Intelligent Manufacturing and Robot Development under the Post-epidemic Period.

Abstract

At present, the emergence of the epidemic has changed the way of life and production, and promoted the development of humanized technology and system. Robot and intelligent manufacturing have become important means. The emergence of intelligent products represented by robots has become a strong support for the development of advanced manufacturing industry in the post epidemic period. The enabling of new technologies such as artificial intelligence, industrial Internet and big data is accelerating the innovation and development of intelligent manufacturing. Based on this development situation, the report will comprehensively share the application of intelligent products represented by robots in intelligent manufacturing and the future development trend of intelligent manufacturing under the deep integration of multi technology means. Meanwhile, it will put forward targeted and forward-looking development suggestions and development direction around the main problems in the development process of intelligent manufacturing in China.



Professor Zhao Xudong
Director of the Centre for Sustainable Energy Technologies
University of Hull

Xudong Zhao is the Professor and Founding Director of the Centre for Sustainable Energy Technologies and Deputy Director of Energy and Environment Institute in University of Hull, and has enjoyed a global reputation as a distinguished academia in the areas of renewable energy and energy efficiency technologies, and sustainable heating, cooling and power systems, with particular strength in integrating renewable energy sources (e.g. ambient energy, PVs, solar thermal and light collectors, and PV/Thermal) and energy efficiency technologies (e.g. heat pipe, heat pump, CHP and PCM etc) into various decentralised heating, cooling and power systems, thus creating the de-carbonised, decentralized and off-grid energy systems. Over more than 30 years of professional career, he has led or participated in 61 research projects funded by the EU, EPSRC, Royal Society, Innovate-UK, Royal Academy of Engineering, China Ministry of Science and Technology and industry with accumulated fund value in excess of £20 million, 40 engineering consultancy projects worth £5 million, and claimed 13 patents. Up to date, he has supervised 35 PhD students and 28 postdoctoral research fellows, published 262 peer-reviewed papers in high impact journals and referred conferences (with GOOGLE SCHOLAR citation number of 5,201, hi-index papers number of 37, i10-index paper number of 98, and citation increasing rate of 60% over the past 5 years, being placed into the ‘2017 world highly cited researchers list’

(only 5 from the UK in Engineering), involved authorization of 9 books, chaired, organized and gave keynote (invited) speeches in over 30 international conferences. His researches in solar PV, solar thermal, solar PV/T (photovoltaic/thermal), heat pump, and sustainable heating & cooling have achieved world-leading standards, being placed at the **'2017 world most highly cited researchers list'**, receiving the **'2018 UK Rushlight Innovation Award'**, **'2019 Newton Prize Finalists Award'**, **'European Dragon-STAR Innovation Silver Award (2nd place) - 2015'**, **'World Society of Sustainable Energy Technology 1st, 2th and 3th Round Innovation Awards'** in consecutive years of 2016, 2017 and 2018, and being nominated as a candidate for **'2018 World Eni-awards'**. He is currently undertaking a number of important national and international roles: (1) Member of the UK **'EPSRC Engineering Prioritisation Panel'**; (2) Executive Board Member of the **'World Society of Sustainable Energy Technologies'**; (3) Executive Management Board Member of the **'International Conference Series for Sustainable Energy Technologies'**; (4) Steering Committee Member of the **'European District Heating and Cooling Technology Platform'** involving development of work documents for European Commission in this subject (e.g. Digital District Heating and Cooling etc); (5) Editorial board member of the journals **'Energy Conversion and Management'**, **'Energy'**, **'Renewable Energy'**, **'Energies'**, **'Future Cities and Environment'**, **'Frontiers in Built Environment and Mechanical Engineering'**, **'Heat Exchangers'**, **'Sustainable Cities and Society'**, **'Journal of Architectural Research and Development (JARD)'**, **'Heating, Ventilation and Air Conditioning'** and **'Chinese Journal of Mechanical Engineering'**; (6) Guest Lead Editors for the **'Applied Energy'**, **'International Journal of Photo-energy'**, **'Energies'**, and **'Frontier of Energy Researches'**; (7) The referee for EU FP7 programme, colleague member of EPSRC (UK), referee of ESRC (UK), French National Agency (ANR), Kazakhstan National Science and Technology Ministry, Portugal Science and Technology section and Hong Kong Research Grant Council; and (8) UK Newton Fund Programme Advisor focusing on China related research collaboration. Further, he was selected as the **'Fellow of Energy Institute'**, **'Fellow of Chartered Institution of Building Services Engineers (CIBSE)'**, **'Fellow of World Society of Sustainable Energy Technologies (WSSET)'** and won the sole **'Research Excellence Award'** in 2018 at the University of Hull.

Title

Advanced Green Energy Technologies to Combat Climate Changes

Abstract

The presentation introduces several key research projects currently undertaken at CSET of University of Hull, which are targeted to develop and investigate the front-line and game-changing green energy technologies with high potential to combat the climate change and protect our environment. These include: (1) innovative space heating system using advanced solar panel array and heat pump technologies, achieving 10~25% higher solar efficiency and 30% higher COP compared to existing solar heat pump heating technologies; (2) high performance dew point cooling technologies reaching COP of 52.5; (3) advanced solar PV/T technology for heat and power generation, having won the Newton Fun Prize Finalist award; (4) novel PV-TE-MCHP for enhanced power generation; (5) micro-channel flat-plate loop-heat-pipe technology for data centres cooling; (6) energy saving potential of the dew point air cooling technologies in data centres; and (7) advanced carbon and energy management and eco-design platform for urban districts. These technologies have already benefited the UK and the world by the accelerated economic growth and increased industry competitiveness. Wide deployment of the technologies will lead to significant saving of fossil fuel consumption, implementation of renewable energy technologies, increase in energy efficiency, improvement of natural environment, as well as enhancement of living standard globally.



Professor Li Songjun
Jiangsu University

Professor Songjun Li is a senior professor of polymer materials at Jiangsu University and currently Dean of the Research School of Polymeric Materials. He was elected a Fellow of the Royal Society of Chemistry (UK) in 2017. He has been also one of the major creators for the "International Congress on Advanced Materials". He joined the University of Wisconsin-Milwaukee (USA) as a postdoctoral researcher in 2008, followed by his Marie Curie Fellowship (2009-2011) and visiting professorship (2012-2014) in Cranfield University (UK). He joined Jiangsu University in 2012 as the "Distinguished Professor" and then became Head of the Institute of Polymer Materials at School of Materials Sciences & Engineering in 2013, the Professor Committee Chair in 2015 and Head of the Research School of Polymeric Materials in 2018. He was awarded the "Jiangsu Distinguished Professor" by Jiangsu Province (China) in 2012 for his contribution to polymers and functional materials. He was elected a board member of the Society of Molecular Imprinting in 2015 and an associate editor of the Journal of Inorganic and Organometallic Polymers and Materials (Springer) in 2019. He has published over 150 research articles and edited 7 books in prestigious Elsevier, Wiley-VCH, Springer, etc.

Title

Smart Materials and their Applications in Advanced Manufacturing Field

Abstract

Smart materials are mainly the polymeric materials that respond to different stimuli or changes in the environment. This field is a technical resource for chemists, chemical engineers, mechanical engineers, and other professionals in the polymer industry; manufacturers in such sectors as medical, automotive, and aerospace engineering. The presentation would focus on the recent progress made in Jiangsu University, including shape memory polymers, smart polymer hydrogels, molecularly imprinted polymers and self-healing polymer systems. The emphasis in the presentation is to highlight the applications of these smart polymers, including catalysis, smart instructive polymer substrates for tissue engineering, smart polymer nanocarriers for drug delivery, smart polymers in medical devices and smart polymers for bioseparation and other biotechnology applications.



Professor Hongbiao Dong
Associate Dean of International
Enterprise Partnerships
University of Leicester

Professor Dong is a Research Chair of Royal Academy of Engineering, Professor of Materials Engineering at the University of Leicester. He is the Associate Dean for International Enterprise Partnerships, and have collaborated extensively with industry in the UK, including Rolls-Royce, TWI Ltd, NPL Tata Steel, British Steel, and Doncasters.

He is leading an EPSRC Centre for Doctoral Training in Innovative Metal Processing (IMPACT CDT), the Centre trains over 60 PhDs with over 12 industrials partners representing major metals industry in the UK.

He is the founder Director of NISCO (Nanjing Iron and Steel Company in Jiangsu, China) UK Research Centre. The Centre carries out research in the field of digital manufacturing, new metallic materials and processes, is a long term partnership with multi-million pounds investment from the University of Leicester and NISCO.

He is Science Director of TWI-UoL Materials Innovation Centre (MatIC), MatIC is a long-term strategic partnership between TWI and the University of Leicester, one of the world's top universities. MatIC focuses on materials characterization, materials modelling and novel materials development

Environmental Engineering Panel



Professor Roger Francis Woods
Electronics, Electrical
Engineering and Computer
Science
Queens University Belfast

Roger Woods is Professor of Digital Systems and a Research Director in the Data Science and Scalable Computing (DSSC) Research Theme focusing on heterogeneous computer architecture. With over 230 papers, he has an established track record in implementing computing and embedded systems, particularly using field programmable gate array (FPGA) technology. He has had major responsibility for a portfolio of UK Research and Innovation (UKRI) projects of nearly £6.5M in the past 5 years and is PI on the eFutures network which seeks to building the UK community in electronic systems and Kelvin-2, a project seeking to accelerate AI-based algorithms on a high performance computer. He has created soft-core approaches for improving FPGA programmability on microservers and new techniques for improving the multi sharing of FPGAs for data processing applications. In addition, he has worked with Seagate on cleaning and analysing datasets for manufacturing data. He leads the Queen's University's effort in the 6M€ OPRECOMP FET Proactive project (<http://oprecomp.eu/>) looking at creating a framework for transprecision computing to improve performance by demonstrating its potential on FPGAs.

He is on the IEEE Signal Processing Society DSIPS Advisory Committee and a member of the UKRI's Strategic Advisory Team on ICT. He sits on the programme committees of numerous IEEE computing technology conferences, e.g. Field Programmable Logic, Field Programmable technology and Signal Processing Systems and Workshop on Applied Reconfigurable Computing. He is on the editorial board of the IET Computers & Digital Techniques journal and Springer's Journal of VLSI Signal Processing Systems. He is currently leading the bid to establish a Centre of Excellence in AI in Northern Ireland.

Title

Improved Sensor Systems for Bridge Structural Health Monitoring

Abstract

Taking long-term measurements on in-service bridges is challenging due to the limited capability to access a power source and communicate with a central computing resource. Current all-in-one, portable sensor data loggers only offers limited functionality. The focus of this research is a collaboration between the Schools of Civil Engineering and Electronics, Electrical Engineering and Computer Science to look at new ways of performing health monitoring by developing intelligent monitors and new means of performing the health monitoring of bridges. The talk will briefly describe a monitor that is currently being developed and provide some indication of new forms of measurement that are being undertaken.



Professor Yiping Li
Associate Dean
College of Environment, Hohai
University, China

Professor Li Yiping is the Associate Dean of College of Environment, Hohai University. He is also appointed as an adjunct professor at the University of North Carolina at Chapel Hill (UNC), USA.

He received his Ph. D. In Environmental Engineering from Hohai University in 2006, and in 2008-2010, he had a two-year postdoctoral study at the Desert Research Institute and University of Nevada at Riverside in the United States. His research area covers water environment system planning and evaluation, rivers and lakes eutrophication mechanism and water environment mathematical model. He participated in the redevelopment of the internationally renowned environmental dynamics model (EFDC) and its application in the lakes, rivers and offshore of China.

Title

The challenges of water pollution control in eastern China and the solutions from Hohai University

Abstract

- General Introduction of Hohai University, and College of Environment: Hohai University is a traditional university with over 100-year history (1915). A comprehensive university covering engineering, sciences, agriculture, law, management, economics, literature and arts. One of the top universities on the state “Double World Class Project”. The largest university in the world dedicated to the research and education in hydraulic engineering and water resources.
- The challenges of water pollution control in eastern China: a rapid economic growth and huge water quality improvement demand.
- The research areas and solutions from college of environment, Hohai University in the filed of water pollution control and ecological restoration.
- Potential cooperation between Hohai University: Joint international Key Lab application, Faculty exchange programs, Student exchange programs, Joint research studies, Joint degree programs---2+2;3+1+1, Joint consulting, Joint training---Wetlands workshop, Joint publications.



Professor Jeffrey J Blackford
Dean for XJTLU
University of Liverpool

I am a physical geographer and environmental scientist, working on environmental change- past climates, human impacts and natural systems.
 (https://www.researchgate.net/profile/J_Blackford).

I have previously worked at the Universities of Manchester and Hull, including several years in management jobs as Head of Department and Head of School. I was appointed in 2019 to a new role as Dean for XJTLU; the Liverpool academic lead and liaison point for the partnership between XJTLU and the University of Liverpool, with responsibility for programmes, teaching quality, research, postgraduates and a new initiative to link innovators with industrial partners and financial backers.

Title

Environmental Challenges and University responses; XJTLU, the University of Liverpool, and Jiangsu 2020

Abstract:

The UK and Jiangsu face some similar environmental challenges, both regional and global in scope. Research groups at the University of Liverpool and at XJTLU are tackling many of the most urgent issues through research in Pollution Interfaces and Impacts, Climate Change, Renewable Energy, Sustainable Buildings and Materials, Ocean Environments, Ecology, Conservation and Biodiversity.

In this presentation, recent reviews of the environmental challenges facing the UK and China will be summarised, and the current research at Liverpool and XJTLU outlined. As well as the science priorities of energy and materials, priorities for future environmental research collaboration across the J2020 partnership will be suggested, where having a large consortium can be an advantage. These include the areas of environmental monitoring, data collection and sharing, urban environments, public engagement, and mitigating climate impacts.



Dr. Xu Yunqing
Director of University Research
Centre for Urban and
Environment Studies,
Xi'an Jiaotong-Liverpool
University

Dr Yunqing Xu is Director of University Research Centre for Urban and Environment Studies at Xi'an Jiaotong-Liverpool University (XJTLU). She is also Associate Professor at the Department of Urban Planning and Design, Design School at XJTLU. She has published intensively on urban (re)development, urban sustainability assessment, and policy and planning interventions. She has diverse work experience in international organisations (UN-Habitat), consultancy companies and universities (e.g. Oxford Brookes, Northumbria) for researching, consulting and trainings. She is vice president of Chinese Built Environment Experts (CBEEs) and member of a number of international and national professional associations (e.g. GCRES, ERES, AsRES).

Title

Environment Research Exploration at Xi'an Jiao-tong Liverpool University in the Post Covid-19 Time

Abstract

The severe challenge of COVID-19 has led to predominant focus and massive global efforts being made on risk reduction and economic recovery. Though it is even more important to mitigate environmental degradation in the post-crisis development and adapt a system view and innovative approaches in initiating environment-oriented developments with an integrated manner. Based on the research collaborations with local government and partners, XJTLU has been combining its international research strengths in conducting local-based research projects covering environmental pollution, water ecology, river control and water system optimization in a time when regional integration in Yangzi River Delta and green development demonstration area where XJTLU is located becomes a national strategy in China. This talk discusses its research initiatives and potential in the new context and the output and lessons gained in research practices in a time of changes, uncertainty and greater challenge.



Dr. Ying Jiang
Senior Lecturer in Bioenergy
Cranfield University

Dr Ying Jiang is specialist in Environmental biotechnology with a broad research and teaching interests in Clean energy, Sustainability and Environmental technologies. His internationally leading research cuts across chemical engineering, industrial and environmental biotechnology and he have a large portfolio of research track record in pollution control and monitoring, remediation technology, anaerobic fermentation and thermo-chemical processing of waste and biomass.

His is investigators (PI/Co-I) of a number of high profile research projects including:

- 2018- PI, Application of microwaves on the production of liquid biofuels, EPSRC (EP/P022863/1). Value: £100,993
- 2018- Co-I, Reinventing the toilet Phase III, The Bill & Melinda Gates Foundation. Value: £3.6M

Healthcare Panel



Professor Stephen L. Smith
Deputy Head of Department
(Research), Electronic
Engineering,
University of York

Professor Smith has been an academic at the University of York, UK for over 25 years and has helped develop strong research and teaching portfolios in both the theoretical and applied aspects of engineering. His own research interests are based on the application of "white box" machine learning algorithms to the development of medical devices to help diagnose and monitor patients with conditions such as Parkinson's, Alzheimer's and stroke. In 2013, following the award of a Royal Academy of Engineering Enterprise Fellowship, Prof. Smith co-founded a spin-out company, ClearSky Medical Diagnostics Ltd., that has helped bring this technology to the patient and support clinical trials of repurposed drugs. This work was recognised by the ACM (Association for Computing Machinery), winning the Gold Award in 2018.

Title

Engineering for the Future – applying technological solutions for a changing World

Abstract

The Department of Electronic Engineering at the University of York - a member of the Russell Group of UK universities - offers a range of taught-masters and research degrees that are focused on leading areas of electronic engineering, including robotics, digital systems, communications and engineering management. In this presentation, I will show how these areas are contributing to real advances in technology and their relevance to industry, and advanced research programmes, focusing on how to make the right choice for you to establish your future career. This will be highlighted with a case example of my own research, developing intelligent medical devices to diagnose and monitor Parkinson's disease in remote and rural China. This is currently being undertaken in collaboration with Ruijin Hospital, Shanghai Jiao Tong University School of Medicine.



Dr. Yi Han
Deputy Director of Geriatric
ICU, the First Affiliated Hospital
of Nanjing Medical University

Dr. Yi Han, M.D., Ph.D., Associate Chief Physician, Deputy Director of Geriatric ICU, the First Affiliated Hospital of Nanjing Medical University.
Major research interest: cardiac dysfunction in sepsis and septic shock.

Title

Snapshots of COVID-19 in Wuhan, Reports and Special Concerns

Abstract

COVID-19, caused by the novel virus severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), was identified in Wuhan in December 2019. Since then, Chinese doctors have seen the coronavirus manifest differently among patients in the epicenter of Wuhan. With the joint efforts from scientists and clinicians, we have overcome the initial breakout of this pandemic disease. But until recently, new clusters of cases still pop up in regions of China and other countries. This brings the challenge of second wave of COVID-19, especially along with the cold weather and flu season. Despite the previous studies and experience, there is still a lot unknown about the novel COVID-19 and the disease it causes. Doctors are only beginning to understand how it leads to maladies that persist long after the virus has been quelled. So, what leads some people to have mild symptoms and others to end up in the hospital? What is the future of COVID-19? Are we going to finally overcome this long-run crisis? What will happen even after this acute infection is over? Let's take a glance of Chinese strategies on this campaign and share our experiences.



Professor Stephan Reiff-Marganiec
Head of School Computing and Engineering
University of Derby

Stephan Reiff-Marganiec is Professor of Computer Science and Head of School of Computing and Engineering at the University of Derby.

Prior he was an Associate Professor of Informatics at the University of Leicester, which he joined in 2003 and the Director of the Leicester Innovation Hub. He also had worked in the computer industry in Germany and Luxembourg. From 1998 to 2001 he was as a Research Assistant at the University of Glasgow, while at the same time reading for a PhD in Computing Science. The work performed at Glasgow investigated hybrid approaches to the feature interaction problem. From 2001 to 2003 Stephan was as a Research Fellow at the University of Stirling, investigating policies, emerging features and associated conflict resolution techniques.

Stephan was responsible for organising the British Colloquium for Theoretical Computer Science in 2001 and again in 2004 and since 2004 has been treasurer of BCTCS. He was co-Chair of the 8th and 10th International Conference on Feature Interactions in Telecommunications and Software Systems, he was co-Chair of the second, third and fourth Young Researchers Workshop in Service Oriented Computing (YR-SOC 2007, 2008 and 2009) and was the senior member of the steering committee for YR-SOC until 2010. Most recently he was PC chair of the IEEE International Conference on Web Services (ICWS) 2016, General Chair of ICWS 2017 and is PC co-Chair of the Workshop Track at Services 2019 and 2020 and PC co-Chair of the Symposium on Service Oriented Software Engineering (SOSE) 2019 and 2020.

Stephan was principal investigator of the project “Ad-Hoc Web Applications” funded by the Nuffield foundation and leader of workpackages and tasks in the EU funded projects Leg2Net, Sensoria and inContext focusing on automatic service adaption, context aware service selection, workflows and rule based service composition. Stephan was co-editor of the Handbook of Research on Service-Oriented Systems and Non-Functional Properties: Future Directions published in 2011. Stephan has published more than 100 papers in international conferences, workshops and journals and has been a member of a large number of programme committees. Stephan has served as panel member and reviewer for Funding Bodies in Brazil, Austria and the UK.

Professor Reiff-Marganiec was appointed Guest Professor at the China University of Petroleum for 4 years from July 01 2009. He was visiting Professor at Lamsade at the University of Dauphine (France) and Visiting Researcher at ICMC at USP (Brazil) and UNIFEI (Brazil) conducting research in the broad area of service computing, IoT and Cloud Computing. He was elected Member of the BCS (MBCS) in November 2002 and Fellow of the BCS (FBCS) in May 2009 and is a member of ACM and IEEE.

Title
Service-inspired Data Processing Architectures for a Smart World

Abstract
In recent years we have seen a great emergence of various “smart world” issues, where essentially we are building systems that impact on people’s life based on data gathered and analysed from the environment. This talk will reflect on the state of the art and highlight opportunities and challenges in the various areas. We will consider IoT and ‘lots of little data’ and the role and activity at the University of Derby in this area.



Professor Wang Jianhao
Changzhou University

Jianhao Wang, Professor at Changzhou University. He obtained his B.S. degree and Ph.D. degree in Biomedical Engineering from Huazhong University of Science and Technology. He was a postdoctor with Prof. Jiang Xia at the Chinese University of Hongkong(2009-2011). He set up a research team at Changzhou University in 2011 and his research focuses on nano biosensor, and biomedical applications of nanomaterials.

Title

pH-Switchable Antimicrobial Nanofiber Networks of Hydrogel Eradicate Biofilm and Rescue Stalled Healing in Chronic Wounds

Abstract

Biofilm infections can induce chronic inflammation and stall the normal orchestrated course of wound-healing cascades. Herein, pH-switchable antimicrobial hydrogel with nanofiber networks for biofilm eradication and rescuing stalled healing in chronic wounds is reported on the basis of the self-assembly of a designed octapeptide at neutral pH. This hydrogel is biocompatible and exhibits an acidic pH (pathological environment of infected chronic wounds)-switchable broad-spectrum antimicrobial effect via a mechanism involving cell wall and membrane disruption. The antimicrobial activity of hydrogel is derived from its acidic pH-dependent nanofiber network destabilization and activated release of IKFQFHFD, which is antimicrobial only at acidic pH due to the antimicrobial peptide-like molecular structure. In addition, supramolecular nanofiber networks loaded with drugs of cypate and proline are further developed. In vitro experiments show that loaded drugs exhibit acidic pH-responsive release profiles, and synergistic biofilm eradication and subsequent healing cascade activation of cells proliferation are achieved on the basis of the supramolecular nanofiber networks. Remarkably, the nanofiber networks of hydrogel enable in vivo complete healing of MRSA biofilm infected wound in diabetic mice within 20 days, showing great potential as promising chronic wound dressings. The proposed synergistic strategy for eradicating biofilm and activating subsequent healing cascades may offer a powerful modality for the management of clinical chronic wounds.



Professor Bing Hu
Associate Head of School
(Research)
University of Plymouth

Professor Bing Hu is Professor and Chair of Oral Biology, and the Associate Head of School (Research) at Peninsula Dental School, Faculty of Health, University of Plymouth in the United Kingdom, where he is also the Director of the Stem Cells & Regenerative Medicine Laboratory. Professor Hu obtained his general dentistry (BDS) and orthodontics degrees (MSc) from Capital Medical University, Beijing and two doctoral degrees: orthodontics and oral biology from Capital Medical University, and cellular & molecular biology from University of Strasbourg . He has received postdoctoral training at Prof. Gian Paolo-Dotto’s lab (University of Lausanne and Harvard Medical School) and worked as Lecturer at the Department of Biochemistry, University of Lausanne before he relocated to Plymouth. Professor Hu has been working in tooth development, stem cells and regeneration, and skin development and cancer. His works have been published in Cell, Genes & Development, EMBO J, Nature Communications, Nature Cell Biology, Journal of Clinical Investigation, EMBO Molecular Medicine, Cell Death Differentiation, Journal of Dental Research etc. and he has received many international prizes including the IADR’s William J. Gies Award and the Cover of the Year Award for Journal of Dental Research in 2006. Dr Hu’s PhD students have also won the 2015 and 2017 BSODR Unilever prize. Professor Hu serves as a member of the UKRI Peer Review College and is the reviewer for most of the UK and EU funding agencies. Professor Hu also hold several visiting and honorary position in the universities in China.

International University-Industry-Research Collaboration Forum



Mr. Kiran Patel
Senior Director (China), China-Britain Business Council

Experienced marketing & communications specialist based in Beijing, China. I've been working in China for almost 17 years and have been actively involved in developing links and creating opportunities between China and the UK throughout my career.



Professor Daniel Parsons
Director of Energy and Environment Institute
University of Hull

Environment Institute has gathered together multidisciplinary team of over 80 researchers to conduct impactful research on the global challenges presented by environmental change, anthropogenic impacts and securing a low-carbon energy supply. The EEI has a portfolio of active research grants and projects of over £21M, and hosts two taught MSc programmes as well as being home to the EPSRC-NERC Aura Centre for Doctoral Training in Offshore Wind and Environment.

Professor Parsons is an active researcher in areas related to fluvial, estuarine, coastal and deep marine sedimentary environments, exploring responses of these systems to climate and environmental change. He has research interests in anthropogenic disturbances to these systems and determining necessary societal adaptations to mitigate the impact of change - for example understanding how evolving flood risk on large mega-deltas can impact populations and related regional and global food security - through to understanding the impact of plastics, particularly in coastal and marine environments.

Professor Parsons also has research interests in environmental scale modelling, innovative environmental measurement technologies and in areas related to offshore renewable energy.

Title
 Aura CDT – Research on Offshore Wind Energy and the Environment

Abstract
 The Offshore Wind Energy Sector is one of the largest growing sectors in the world, requiring more than 2000 turbines installed in the next 10 years in the UK alone. Located in the Humber Energy Estuary, the £5million EPSRC-NERC funded Aura Centre for Doctoral Training (CDT) in Offshore Wind Energy and the Environment is multi-institutional programme developed in collaboration with our national and international industry partners. Through cross-discipline engineering and environmental research, we are developing innovative solutions to contemporary challenges faced by the offshore wind energy sector. We are focused on developing talent and future leaders that understand environmentally sustainable development throughout the whole lifecycle of offshore wind energy production. From turning textile waste into turbine blades, to hydrogen energy storage systems, together with our industry partners the Aura CDT is leading the sector in driving circular economy and protecting biodiversity during the rapid expansion of this technology.



Mr. Haishun Yun
CEO
Jiangsu Huada Chemical Group
Co., Ltd

Haishun Yun is the CEO of Jiangsu Huada Chemical Group.

Huada is the manufacturer of intermediate of Pharma ,pesticide and Material especially in the resin which is used in 5G.

Huada is established in 1990. In 1995 Huada and Ouchishinko established a JV in Changzhou which manufacture rubber antioxidant for rubber and tire companies in Japan .

Recently Huada focused on new material.Huada cooperate with some foreign research institute who have some special technology and looking for investment to help them to do pilot trial in China and explore East Asia market with them together.



Professor Hongbiao Dong
Associate Dean of International
Enterprise Partnerships
University of Leicester

Professor Dong is a Research Chair of Royal Academy of Engineering, Professor of Materials Engineering at the University of Leicester. He is the Associate Dean for International Enterprise Partnerships, and have collaborated extensively with industry in the UK, including Rolls-Royce, TWI Ltd, NPL Tata Steel, British Steel, and Doncasters.

He is leading an EPSRC Centre for Doctoral Training in Innovative Metal Processing (IMPACT CDT), the Centre trains over 60 PhDs with over 12 industrials partners representing major metals industry in the UK.

He is the founder Director of NISCO (Nanjing Iron and Steel Company in Jiangsu, China) UK Research Centre. The Centre carries out research in the field of digital manufacturing, new metallic materials and processes, is a long term partnership with multi-million pounds investment from the University of Leicester and NISCO.

He is Science Director of TWI-UoL Materials Innovation Centre (MatIC), MatIC is a long-term strategic partnership between TWI and the University of Leicester, one of the world's top universities. MatIC focuses on materials characterization, materials modelling and novel materials development

Title
An Introduction to NISCO UK Research Center

Abstract
The College of Science and Engineering at the University of Leicester comprises six research-led Schools: Chemistry, Engineering, Informatics, Mathematics, Physics & Astronomy and Geography, Geology and the Environment. The College of Science and Engineering is internationally leading in many of the fields covered by the wide range of research activities within the College.

Our vision is to conduct discovery led world leading research, addressing the challenges affecting the planet, industry and society. In order to achieve this, our research:

- Directly address the needs of our funders and stakeholders.
- Consolidate and grow our globally competitive research capability and capacity.
- Apply our research to reinforce the development and growth aspirations of our regional and national economy.
- Facilitate collaboration with leading academic, commercial and public sector partners.
- Deliver a nurturing environment which identifies, supports and develops future research leaders and directions.
- Measure our success through the demonstrable quality and impact of our research.

The College has several interdisciplinary research themes that are important to the UK's research base, economic development and social well-being. The College also hosts several major research centres, each of which has a specific expertise and facilities focused in the area. Our research activities can also be understood by department following the traditional scientific and engineering disciplines.

Environment

Materials and Manufacturing

Astronomy, Space & Earth Observation

Data Analytics and Computational Modelling (a cross-cutting theme)



Mr. Zhang Haitao
General Manager
Jiangsu Lihua Animal
Husbandry Co., Ltd.

President's Office of LiHua Co. Ltd. Deputy Chief Engineer

Master of Pathology, Nanjing Agricultural University

PhD in Biochemistry and Molecular Biology, Nanjing University

Be committed to major diseases prevention, control and diagnosis of livestock and poultry in large-scale farms in recent years. Undertake the implementation of the national key research and development program of China "Encapsulated antimicrobial precursors for non-antibiotic treatment of MDRO in poultry".



Mr. Rich Adams
Business Engagement Manager
University of Plymouth

Rich joined University of Plymouth in 2011 following a career in both public and private sectors. He also established and ran his own successful digital media company after many years of working in a business support environment.

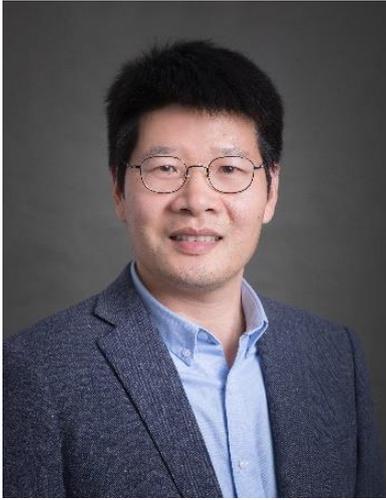
With a background in innovation and business support Rich leads on business engagement activities across the whole university as well as project and partnership development with industry stakeholders. Key responsibilities includes leading student enterprise services, business engagement support, developing innovative business support solutions that enables industry to access the universities skills, facilities and state-of-the-art equipment. Rich also works closely with businesses to explore joint funding and research collaborations and is a Director of Plymouth & Devon Chamber of Commerce.

Title

University of Plymouth Approach to Supporting Industry & University Collaborations

Abstract

Plymouth and the wider South West peninsula have a number of economic and societal challenges that the University, working in collaboration with businesses, has addressed resulting in heightened innovation and entrepreneurship particularly in the fields of healthcare, environmental engineering and advanced manufacturing. This presentation provides an insight into the portfolio of services designed for the needs of the business community that leads to greater university-industry collaboration in these fields.



Prof. Zhoulin Ruan
Director of Graduate School
XJTLU

Dr Zhoulin RUAN (阮周林) is Academic Director of the Graduate School and Professor of Applied Linguistics at Xi'an Jiaotong Liverpool University. He was the founding Head of Department of Languages and Culture (02/2009-08/2011), Department of English, Culture and Communication (09/2011-08/2014), and Department of English (09/2016-01/2020) at XJTLU. He joined the University in August 2006 when it was founded in SIP, Suzhou. In his HoD role, he led all aspects of the creation and development of the Departments, from developing and managing the delivery of BA and MA programmes, to building an international faculty team. He has served on the University's committees and boards in various roles. Prof Ruan received his PhD in applied linguistics from the University of Reading in the UK. His research interests are in academic writing, second language acquisition, EAP/ESP in the Chinese contexts, and discourse analysis. His research articles have been published in the domestic and international journals, e.g., *Journal of English for Academic Purposes*, *Language Awareness*, *System*, and *Chinese Journal of Applied Linguistics*. Prior to XJTLU, Prof Ruan had undertaken teaching and research in applied linguistics at universities in China and the UK. At XJTLU he supervises PhD students on projects relating to his research interests within the University of Liverpool's Off-site Doctoral Programme.

Title

The XJTLU Offshore Innovation Centre – linking innovative research, industry and investors in China and the UK

Abstract

XJTLU, The University of Liverpool, Suzhou government and Liverpool City Region are developing a new vehicle to establish better links between the two regions, and between researchers and industry. The final vision is for a facility in the UK with research space to fit the growing areas of expertise in applied science across the two areas, staffed by technical and business experts and advisors, with a parallel development in Suzhou. The first phase will be to run enterprise fellowships, training and developing innovators to help them turn their research breakthroughs into products and spin out companies. We will also employ a business development manager to grow the connections between innovation, industry and finance. The IOC will be an innovation hub, driving growth and high-value career opportunities as both regions. While the start point will be the partnership between XJTLU and the University of Liverpool, we plan to quickly widen to benefit related institutions and businesses, with a focus on one digital innovation, materials science, clean energy technologies, AI and health technology.



Ms. Wang Xiaoyan
Chief of Business Development
International
China Medical City

Wang Xiaoyan joined the China Medical City since 2010 after post-graduation of Dalian University of Foreign Languages. She came to take up the Chief of BD International of the CMC in 2014, mainly taking charge of bringing European projects into the CMC. She also took part in the whole process of many multinational projects negotiation like AZ, BI, Takeda etc. She also organized CMC teams to start promotion activities among many European countries and Asian countries since 2010.

She researched in British literature from 2007 to 2010. She also accumulate rich pharmaceutical knowledge in the work experience of the CMC and also get another pharmaceutical master degree from 2013 to 2018 of Xuzhou Medical University.

She is currently chief of BD International of the CMC and also one of the vice-chairmen of the hi-end medical device industry union of Taizhou Medical Hi-tech Zone.

Title

Global Top-tier Commercialization Hub in Life Science Industry

Abstract

The China Medical City is located in Taizhou, an important city in the Yangtze River Delta. The CMC covers 30 km² according to its plan, consisting of functional zones of Scientific Research and Development, Manufacturing, Exhibition and Trade, Healthcare, Education and Teaching, and Comprehensive Supporting. As the first national level life science hi-tech park, the CMC is jointly built by the Ministry of Science and Technology, the National Health Commission of the People's Republic of China, the National Medical Products Administration, the China Administration of Traditional Chinese Medicine and Jiangsu Provincial Government.

We are committed to building the largest life science industrial base with the most integrated industrial chain in China. The CMC has cooperated with over 70 famous life science research and development institutes at home and abroad, and over 1000 companies with a large number of major industrial projects have been introduced, including AstraZeneca, Boehringer Ingelheim, Nestle, Sanofi-Pasteur, Takeda, Chugai, Aurovitas, Taiwan Xantia, Neptunus Group, Watson, Mabtech, Zhongchong group, Sinovet etc. More than 2100 world-class life science innovation achievements have been successfully declared. Over 4200 high level talents from home and abroad have settled down to establish the business.



Dr. Paul E. Burrows
Vice President
Jiangsu Industrial Technology
Research Institute (JITRI)

Dr. Burrows is the Vice President for Overseas Cooperation at the Jiangsu Industrial Technology Research Institute in Nanjing, China. He has over 30 years of research experience, including consulting for both executive government and industry leadership. He previously served as Senior Vice President for R&D at the Institute of New Energy, Shenzhen, China, and also worked for KB Science in Boston, USA, serving as Chief Research Development Officer. His work there included leading clients on strategy, team science and competitive proposal development for large-scale center proposals.

Paul obtained a PhD in Physics from Queen Mary College, University of London, in 1989. He was a Research Scientist in the Frontier Research Program at the Riken Institute in Japan and also held research appointments at the University of Southern California and Princeton University, where he was a Research Scholar from 1997 to 2000. He helped found Universal Display Corporation (Nasdaq listed in 1996) and is a co-inventor of phosphorescent organic light emitting devices (OLEDs) and stacked, color-tunable OLEDs. He subsequently joined Pacific Northwest National Laboratory (PNNL) as a Laboratory Fellow, where he managed the successful Nanoscience and Nanotechnology Initiative (funded at over \$5 million) and built a research program in solid state lighting with the DOE along with a > \$1 million/year OLED research group at PNNL. He won a Federal Laboratory Consortium for Technology Transfer award for excellence in technology transfer in 2002 for the thin film encapsulation technology that formed the basis of a second startup, Vitex Systems, sold to Samsung in 2010.

He has over 110 publications in refereed journals and is a co-inventor of 122 issued U.S. Patents in the field of organic semiconductors, thin film technology and solid state lighting.

Title

The JITRI Innovation Ecosystem and University Partnerships

Abstract

The Jiangsu Industrial Research Technology Institute's strategy to catalyze industry-university cooperation and transform Jiangsu Province industry to an innovation-driven model will be described.



Ms. Isabel Xu
Director Education & Innovation
China-Britain Business Council

Isabel leads the education sector team in China and collaborates with China Market Business Advisors in the UK to ensure quality services are offered to clients. Isabel works closely with the UK government and educational associations in addressing the needs from the sector and driving market development and commercial outcomes.

Prior to CBBC, Isabel worked for the British Council in China for 10 years, where she was heavily involved in both inward and outward student mobility programmes between the UK and China, government relations, TNE programmes, and the alumni employability programme. In the past three years, Isabel has been working with British schools in landing their brands and campuses in China, and offering advice on acquisition enquiries. Isabel has professional digital product development qualifications in helping edtech companies to understand industrial regulations and to find the most efficient approaches to develop their business in China.



Mr. Martin Hu
Senior Partner
MHP Law Firm

Martin Hu is a Senior Partner of MHP Law Firm, qualified to practice in the People’s Republic of China. He was also admitted to practice law in the State of Ohio, USA, and had practiced corporate and tax law in Columbus, Ohio for several years. He has been retained by many well-known multinational companies as lead counsel for major projects from the planning to the closing stage.

Martin Hu has over 22 years of extensive experience in M&A, joint ventures and capital market, and has advised a number of remarkable projects and cases. Our representative clients include P&G, Amsted, Coventry University, China Pacific Insurance Group, Shanshan Group, which Martin Hu has counseled actively and extensively on their market entry strategies, joint venture transactions, mergers & acquisitions, technology licensing arrangements, and other major legal and political endeavors in China.

Martin Hu received the following professional awards for his outstanding achievements in those practice fields:

- “Top 10 Lawyers in Shanghai Award” by Shanghai Bar Association in 2011
- “Outstanding Lawyers of China Award” by All China Lawyers Association in 2011
- “China Top 15 M&A Lawyers” by Asian Legal Business (ALB) in 2019
- “Leading Lawyer in Corporate/Commercial” by Chambers Asia in 2020
- “Leading Lawyer in Corporate/M&A” by Chambers Asia in 2020

In addition to his outstanding professional achievements, he also serves as a member of the Standing Committee of Shanghai People’s Political Consultative Conference, a semi-legislative body in China.



Dr. Yun Wang
Senior Business Manager
Jiangsu Industrial Technology Research Institute

Dr. Wang is the Senior Business Manager at Overseas Cooperation Department of Jiangsu Industrial Technology Research Institute in Nanjing, China. He previously served as Senior Project Manager at the Aviation Industry Corporation of China, Ltd. He has over 10 years of research experience for aircraft manufacturing. Yun obtained a PhD in Materials Engineering from University of Nottingham, UK, in 2016, and received his Master and Bachelor degree from Beihang University in Automation and Electronic Engineering in 2008 and 2005.



Dr. Alex Yang
Industrial Cooperation
Manager
Oxford Suzhou Centre for
Advanced Research

Alex Yang joined OSCAR in August 2018 as Industrial Cooperation Manager, responsible for liaison between OSCAR and Industrial Partners, promoting OSCAR to Jiangsu Industries to identify industrial collaborative research opportunities. Prior to this, Alex worked for University of Western Ontario Tech Transfer office China Center as BD Director for the past five years, in charge of developing local partners, business negotiation, patent application, fund raising, grant application and other works related to tech transfer & tech cooperation. Alex has obtained his BEng in Chemical Engineering and MMed in Pharmaceutical Analysis from Zhejiang University in 2000 and 2005.



Professor Alan Marshall
Consortium UK Chair, Head of
EEE
University of Liverpool

Professor Alan Marshall is the Chair of UK-Jiangsu 20+20 World Class University Consortium. He holds the chair in Communications Networks at the University of Liverpool where he is director of the Advanced Networks Group. He is a senior member of IEEE and a Fellow of the IET. He has spent over 24 years working in the Telecommunications and Defence Industries. He has been visiting professor in network security at the University of Nice/CNRS, France, and Adjunct Professor for Research at Sunway University Malaysia. He has published over 200 scientific papers and holds a number of joint patents in the areas of communications and network security. He has formed a successful spin-out company Traffic Observation & Management (TOM) Ltd specialising in intrusion detection & prevention for wireless networks. His research interests include Network architectures and protocols; Mobile and Wireless networks; Network Security; high-speed packet switching, Quality of Service & Experience (QoS/QoE) architectures; and Distributed Haptics.



Professor Duan Lunbo
Deputy Dean of Department of
Human Resources
Southeast University

Dr. Lunbo Duan is a professor in School of Energy & Environment, and the Deputy Dean of Department of Human Resources, Southeast University. His research interests include combustion, carbon capture and storage, waste to energy, biomass thermo-chemical conversion, renewable energy and energy storage, and so on. He is managing various projects from NSFC, MOST, international and domestic industrial partners. He published more than 100 papers and has an H-index of 32.



Professor Ye Zhirui
Professor of the School of
Transportation
Director of Office of
International Cooperation
Southeast University

Dr. Ye Zhirui is Professor of the School of Transportation, Deputy Director of Jiangsu Key Lab of Urban ITS and Director of Office of International Cooperation at Southeast University (SEU). He obtained his Ph.D. degree in Transportation Engineering from Texas A&M University. He became Research Scientist (PI) at the Western Transportation Institute at Montana State University in 2007, and then joined the transportation program at SEU in 2011.

His research interests include Intelligent Transportation Systems related to public transportation, big data, connected vehicles, and traffic safety. He was the principal investigator on several projects sponsored by the National High-tech Program project and National Science Foundation of China. He has published over 40 papers in referred journals in the past 5 years.



Mr Maolin Chen
Asst. Secretary General
China EV100

Mr. Chen has 20+ years' experience in government agencies and institutions, has been served at Research Institute of Highway (RIOH), Ministry of Transport, National ITS Center (ITSC), National ITS Standardization Committee (SAC/TC268), ISO/TC204 Domestic Secretariat, and significant exposure to the Organizing Committee, IPC Committee of the ITS World Congress.

Since 2015, Mr. Chen joined China EV100 as the director of the International Center, is responsible for the International Advisory Committee, international study and research programs, industrial cooperation and events organization. In September 2018, he proposed on behalf of China EV100, an initiative to establish the China-UK Joint Automotive Innovation Centre (JAIC), which achieves supports by the Ministry of Industry and Information Technology and the UK Department of International Trade. In June 2019, JAIC was included in the outcomes list of the 10th China-UK Economic and Financial Dialogue. Similar Sino-foreign joint innovation centers are also expended into Germany, France, Spain and other EU countries. He also participated in the initiative planning of the China-Europe Dialogue on Global Zero Emission and Intelligent Transportation, Global Future Mobility Conference, and Intelligent Vehicles and Smart City Pilot Programme, etc. Mr. Chen currently serves as Assistant to Secretary-General, in charge of international cross-industry innovation cooperation.