

Speaker Profiles



Professor Peter Andras is the Dean of the Schools of Computing and Engineering & the Built Environment. Previously he worked at Keele University (2014 – 2021) and Newcastle University (2000 – 2014). He has PhD in Artificial Neural Networks, MSc in Artificial Intelligence and BSc in Computer Science, all from the Babes-Bolyai University, Cluj, Romania. He has over 150 scientific publications, including 2 books. He has been involved in a large number of research projects, including several projects in collaboration with industrial partners. He was co-founder of three university spin-off companies, one of these, e-Therapeutics Plc is on the London Stock Exchange since 2007. His research interests span artificial intelligence and its applications (including areas of sustainable energy), complex systems, computational modelling of biological and social systems and software engineering, including many cross-disciplinary collaborations with engineers, psychologist, chemists and others.



Professor Soteris Kalogirou is at the Department of Mechanical Engineering and Materials Sciences and Engineering of the Cyprus University of Technology, Limassol, Cyprus. He is currently the Dean of the School of Engineering and Technology. In addition to his Ph.D., he holds the title of D.Sc. He is a Fellow of the European Academy of Sciences and Founding Member of the Cyprus Academy of Sciences, Letters and Arts.

For more than 35 years, he is actively involved in research in the area of solar energy and particularly in flat plate and concentrating collectors, solar water heating, solar steam generating systems, desalination, photovoltaics, geothermal energy and absorption cooling.

He has a large number of publications in books, book chapters, international scientific journals and refereed conference proceedings. He is Editor-in-Chief of Renewable Energy and Deputy Editor-in-Chief of Energy, and Editorial Board Member of another twenty journals. He is the editor of the book Artificial Intelligence in Energy and Renewable Energy Systems, published by Nova Science Inc., co-editor of the book Soft Computing in Green and Renewable Energy Systems, published by Springer, editor of the book McEvoy's Handbook of Photovoltaics, published by Academic Press of Elsevier and author of the books Solar Energy Engineering: Processes and Systems, and Thermal Solar Desalination: Methods and Systems, published by Academic Press of Elsevier.

He is a member of World Renewable Energy Network (WREN), American Society of Heating Refrigeration and Air-conditioning Engineers (ASHRAE), Institute of Refrigeration (IoR) and International Solar Energy Society (ISES).

Edinburgh Napier University's 2nd Annual Solar and Wind Power Conference – Tuesday 15th March 2022



Elmie Fairul Bin Mashuri, Managing Director GSPARX Sdn Bhd Tenaga Nasional Berhad

Elmie has 16 years of working experience with Tenaga Nasional Berhad. He is well exposed to both the technical and management sides of the energy industry. His vast experience and knowledge started in the Distribution Network Project Management for Electricity Supply Project and System Improvement Project (11kV system and below), then continue with Planning & Development Department and Operation & Maintenance Department in year 2010. Elmie has served as Area Manager in one of high development area, serving over more than 50,000 customers including the residential, commercial and industry. In this position given opportunity for Elmie to gain experience not only the operation but also the management perspective.

Academic/Professional Qualifications:

- DIPLOMA ENGINEERING, under Japanese Associate Degree Program (JAD2)
- BACHELOR OF ELECTRICAL ENGINEERING, Tokyo Denki University, Japan (2005)
- MASTER OF BUSINESS ADMINISTRATION (TNB UNITEN & Leadership Development Centre)- Collaboration with Melbourne Business School (2016)
- International Association of Certified Valuation Specialist (IACVS) (2019)



Dr Shahzad is working as a Senior Lecturer in Mechanical and Construction Engineering Department at Northumbria University (NU), Newcastle Upon Tyne, United Kingdom. He worked as a Research Scientist in the Water Desalination and Reuse Center of King Abdullah University of Science and Technology from 2014-2019 before joining NU, UK.

He is working in hybrid desalination processes and renewable energy research. He won many international awards including, National Energy Globe Award Saudi Arabia 2021, Sustainability Medal 2020, Global Innovation Award 2020, National Energy Globe Award Saudi Arabia 2020 and 2019, Excellence and Leadership Award 2019, IDA Environmental & Sustainability Award 2019. His research was highlighted at Yahoo business, Nature Middle East, Arab News and many other national and international platforms. He successfully commercialized his cooling and desalination processes through spin-off companies.

Dr. Shahzad holds 11 international patents. To date, he published 2 books, 17 book chapters, over 65 peer-reviewed journal papers and more than 110 conference papers. He also received three best paper awards in international conferences. He is an editorial board member of NATURE Applied Science journal and serving as a Guest Editor for topical collections. He is also selected as a regional coordinator for International Desalination Association Young Leader Program (IDA-YLP) for Middle East & Africa region. He is a member of many professional organizations namely; International Desalination Association (IDA), The International Water Association (IWA) and American Society of Mechanical Engineer (ASME).

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Leonardo Micheli is a “Ramon y Cajal” Research Fellow at the University of Jaén, in Spain, where he leads the research on photovoltaic soiling. In 2015, he obtained a PhD in Renewable Energy at the University of Exeter, with a thesis on the electrical and heat performance of high concentrator photovoltaics. After the PhD, he worked within the PV Performance and Reliability group at the National Renewable Energy Laboratory (NREL), USA, initially as visiting postdoc and later as staff researcher. In 2018, he was awarded a two-year Marie Skłodowska-Curie IF fellowship, also conducted at the University of Jaén (Spain).

His main research interests include the monitoring, the analysis and the prediction of PV performance and the optimization of loss mitigation strategies. Since 2021, he is also active on floating photovoltaics.



Mr Yusof Yusrizal - A professional engineer offering vast and diverse experience in renewable energy business development, asset management, short term electricity generation planning, long term generation expansion planning, design, installation, testing, commissioning and operations of a District Cooling System with Thermal Energy Storage, Landfill Gas Renewable Energy Power Generation and Energy Audit. Familiar with the Incentive Based Regulation structure and depth knowledge of the Malaysian Electricity Supply Industry (MESI). Obtained MBA from Universiti Tenaga Nasional (UNITEN) with General Certificate of Management from Melbourne Business School in 2016. Graduated from University of Michigan, Ann Arbor, in Bachelor of Science in Engineering (Mechanical Engineering) in year 2000. Completed Secondary Education from Sekolah Menengah Sains Machang, Kelantan in year 1994. Incorporated TNB Renewables

Sdn. Bhd. in 2018 as the Managing Director until now.



Taizo Masuda - Carbon neutral developing division, Toyota Motor Corporation, Japan Institute for Advanced Science, The University of Electro-Communications, Japan

Taizo Masuda received the B.A. degree and the Ph.D. degree from Keio University, Tokyo, Japan, in 2003 and 2010, respectively. Since 2005, he has been with the Toyota Motor Corporation. Between 2013 and 2015, he was a Visiting Scholar with Yale University.

His research interests include photovoltaics and related technologies for automotive applications. He has been visiting professor at the University of Electro-Communications since 2020.

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Organisers



Professor Tariq Muneer BEng (Hons) MSc, PhD, CEng, FCIBSE, Millennium Fellow

Professor Muneer is a senior 'Energy Engineering' academic in Scotland. He was instrumental in setting up the Masters and Doctoral research and study programmes at Edinburgh Napier University. He also led the installation of charging stations for EVs at Napier and has extensively researched the performance of EVs. He is the author of Elsevier's monograph 'Electric Vehicles' that was published in 2017.

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Dr Firdaus Muhammad-Sukki (MEng (Hons), PhD, CEng, MIET, ACGI)

Dr Firdaus Muhammad-Sukki received his MEng (Hons) in Electrical and Electronic Engineering from Imperial College in 2006 and a PhD in Solar Engineering from Glasgow Caledonian University in 2013. He is now a Lecturer in Engineering Mathematics at the School of Engineering & the Built Environment, Edinburgh Napier University. His research interest is in the area of renewable energy technology and policies and sustainable resources. Prior to joining the academia, he was a communication engineer in Malaysia's largest telecommunication company.

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Dr Stathis Tingas is a Lecturer in Mathematics at Edinburgh Napier University (ENU). He received his PhD and MSc from the National Technical University of Athens (NTUA), Greece, in 2016 and 2012, respectively, and his BSc from the Hellenic Air Force Academy, in 2005. He worked as an aircraft engineer with specialty in jet engines at the Hellenic Air Force, from 2005 to 2016. In 2016, he joined KAUST's Clean Combustion Research Center, in Saudi Arabia, where he worked as a postdoctoral research associate. In 2019, he became Lecturer in Engineering and Aviation at the University of the Highlands and Islands (Perth College) and Programme Leader for the Aircraft

Engineering. Dr Stathis Tingas's research focuses on the areas of high-fidelity simulation of turbulent reacting flows (with an emphasis on hydrogen, biofuels and alternative fuels) and the mechanistic analysis of multiscale systems in the fields of reacting flows, chemical kinetics, biology and population dynamics. Through his work, he aims to investigate problems related both to fundamental aspects and practical applications.

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Yvonne Lawrie is Research Support Co-ordinator for the School of Engineering and Built Environment and has worked at Edinburgh Napier University since 2012.

Yvonne launched the annual Electric Vehicle Event in 2015 and it is now in its 8th year. Yvonne led TRI's 25th anniversary celebrations in 2021 with a number of events, including the Solar and Wind Power, TRI's Timeline and TRI's Showcase events.

Yvonne has also been instrumental in the delivery of the 9th International Symposium on Travel Demand Management 3-day event, 54th UK HRV 2019 3-day event, Autonomous Vehicle Workshop, Transport Planning & Public Health Seminar, Equality Act Seminar, Smart Urban Mobility Workshop, STAR Conference, Road Transport and Public Health Training events. Plans are also underway for the 54th UTSG 2022 conference.

Yvonne manages the School of Engineering and Built Environment blog and Transport Research Institute blog and social media channels. She also produces TRI's Annual Reports and newsletters for TRI and the School.



Benedetta Piccio is a PhD student at Edinburgh Napier University, "Women, Festival Leaders and Social Transformations: An International Comparison". She is looking at feminist studies and movements, events management, with specific attention to festivals and women leadership. Benedetta has an international academic and working background in Scotland, Spain, Australia, and Italy, including working at university as a tutor and assistant professor at the University of Queensland, Brisbane, Australia. She has researched the online Edinburgh 2020 Fringe and recently published as a co-author: "Learning from the 2020 Edinburgh Festival Fringe. Recommendations for Festivals and Performing Arts in Navigating Covid-19 and New Digital Contexts." She works as a research assistant for her supervisors, and as public engagement events assistant for several projects at Edinburgh Napier University.