

Curriculum Vitae Stepan Lucyszyn



Nationality: British
 Date of Birth: 28th August 1965

Languages: English (*native speaker*)
 Japanese (*basic level*)
 Ukrainian (*basic level*)

Title of Present Post: *Professor of Millimetre-wave Systems*

Work Address: Optical and Semiconductor Devices Group,
 Department of Electrical and Electronic Engineering,
 Imperial College London

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 Wikipedia Profile URL: https://en.wikipedia.org/wiki/Stepan_Lucyszyn

Biography

Stepan Lucyszyn *PhD, DSc, FREng, FIEEE*, is Professor of Millimetre-wave Systems at Imperial College London.

For a brief time, Lucyszyn worked in industry, as a satellite systems engineer for maritime and military communications. In 1994, he registered with the Engineering Council as a qualified chartered engineer.

Lucyszyn spent 12 years researching microwave and (sub-)millimetre-wave RFICs/MMICs. He co-edited a book entitled *RFIC and MMIC Design and Technology*, published by the Institution of Electrical Engineers (IEE, now the IET) in 2001. This book was translated into Chinese in 2007. For his contributions to RFICs/MMICs, he was made an adjunct professor at the University of Electronic Science and Technology of China (Chengdu, China) in 2008.

In 2001, Lucyszyn started working on RF MEMS. In 2004, he published a review paper on RF MEMS technology, which won an IEE Premium Award in 2005. He edited the book entitled *Advanced RF MEMS*, published by Cambridge University Press in 2010. For his contributions to RF MEMS, he was made a guest professor at Tsinghua University (Beijing, China) in 2008.

Lucyszyn first starting working on millimetre-wave and terahertz technologies in 1992 and 1996, respectively. In 2010, he was awarded the DSc degree (higher doctorate) of Imperial College London for his contributions to Millimetre-wave and Terahertz Electronics. In 2011, he introduced the concept and has since been pioneering "over the THz horizon" thermal infrared 'THz Torch' technologies. In 2012, he co-founded the cross-disciplinary Centre for Terahertz Science and Engineering at Imperial College London and was co-director until 2019.

In recent years, Lucyszyn has concentrated his research activities on building-edge additive manufacturing for next generation microwave, millimetre-wave and terahertz applications. For his contributions to passive component technologies, he was made a visiting professor at Tohoku University (Sendai, Japan) in 2019. In 2022, for their work on 3D printing, Lucyszyn and his team at Imperial College London won Junkosha's inaugural Technology Innovator of the Year Award for the Microwave and Millimeter Wave category.

Lucyszyn has (co-)authored well over 200 papers and 12 book chapters in applied physics and engineering. He served as Editor-in-Chief for the *International Journal of Electronics* (2002-2006) and Associate Editor for the *Journal of Microelectromechanical Systems* (2005-2009). In 2011, Lucyszyn chaired the 41st European Microwave Conference (EuMC).

Lucyszyn was an External Examiner at the University of Leeds (2009-2013) and University College Cork (2017-2021) for their undergraduate degree programmes in Electrical and Electronic Engineering. Lucyszyn was made an IEEE Distinguished Microwave Lecturer (DML) (2010-2012) and a EuMA European Microwave Lecturer (EML) (2013).

He was made a Fellow of the Institute of Physics (UK, 2005), Fellow of the Institution of Electrical Engineers (UK, 2005) and Fellow of The Electromagnetics Academy (USA, 2008). Lucyszyn was elevated to Fellow of the Institute of Electrical and Electronics Engineers (USA, 2014) 'for contributions to monolithic microwave integrated circuits and radio frequency microelectromechanical systems'. Lucyszyn was elected to Fellow of the Royal Academy of Engineering (UK, 2023).

In 2004, Lucyszyn was interviewed on the TV programme 'Click Online', by BBC reporter Spencer Kelly, for his views on fire risks associated with mobile phones. In 2013, Lucyszyn was selected to take part in the Royal Society Pairing Scheme's 'Week in Westminster', where he was partnered with the Head of Chief Scientific Advisers (CSAs) Partnership Team at the Government Office for Science (GO-Science). In 2014, Lucyszyn travelled to a minefield in Croatia with legendary Manchester United and England footballer Sir Bobby Charlton (founder of the Find A Better Way (FABW) charity) to investigate new technologies for landmine detection.

In 2014, with Lord (Paul Rudd) Drayson, he co-founded the Imperial College London spin-out company Drayson Wireless Ltd. (renamed 'Drayson Technologies Ltd' in 2015), being a co-inventor in two patent families associated with radiative and inductive wireless power transfer.

General

Academic Qualifications

- 2010 *D.Sc. in Millimetre-wave and Terahertz Electronics*
Imperial College London
- 1993 *Ph.D. in Electronic Engineering*
University of London (King's College)
- 1988 *M.Sc. in Satellite Communication Engineering*
University of Surrey
- 1987 *B.Sc.(Hons) in Electronic & Communication Engineering*
Polytechnic of North London
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Professional Employment

- 2016-present *Professor of Millimetre-wave Systems*, Imperial College London
- 2006-16 *Reader (Associate Professor) in Millimetre-wave Electronics*, Imperial College London
- 2001-06 *Senior Lecturer*, Imperial College London
- 2000-01 *Senior Lecturer*, University of Surrey
- 1995-00 *Lecturer in RF Electronics*, University of Surrey
- 1992-95 *Post-Doctoral Research Fellow*, University of London (King's College)
 - Advanced Microwave Signal Processing Techniques for Integrated Circuits
- 1989 *Communication Systems Engineer*, Vega Space Systems Engineering Ltd
 - 6 month subcontract for UK Ministry of Defence SKYNET-4 projects
 - 3 month subcontract for INMARSAT-2 project
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Fellowships, Prizes and Awards

- 2023 *Fellow of the RAEng*, Royal Academy of Engineering
- 2022 Junkosha's inaugural Technology Innovator of the Year Award (Microwave and Millimeter Wave category)
- 2019, 21 Appointed *Visiting Professor* at Tohoku University, Sendai, **Japan**
- 2019 *Best Student Paper Award*, IEEE IMWS-AMP 2019, Bochum, **Germany**
- 2017 *Best Paper Award (AWR's Steve Evans-Pughe Prize)*, ARMMS RF & Microwave Society Conference
- 2013-16 *EuMA European Microwave Lecturer*
- 2014 *Fellow of the IEEE*, Institute of Electrical and Electronics Engineers, **USA**
- 2013 *Runner-up Prize*, ARMMS RF & Microwave Society Conference
- 2013 *IEEE UK&RI Presentation Award*, R2i2 Electronics Conference
- 2013 *Best Poster Prize*, Energy Harvesting 2013
- 2013 *IEEE Emeritus Distinguished Microwave Lecturer*
- 2010-12 *IEEE Distinguished Microwave Lecturer*
- 2008-10 Appointed *Guest Professor* at the Micro and Nano Technology Research Center, Tsinghua University, Beijing, **China**
- 2008 Appointed *Adjunct Professor* at UESTC, Chengdu, **China**
- 2008 *Fellow of the EMA*, The Electromagnetics Academy, **USA**
- 2005 *Fellow of the IoP*, Institute of Physics
- 2005 *Fellow of the IEE*, Institution of Electrical Engineers
- 2005 Awarded the *IEE Science, Measurement and Technology Premium Prize*
- 2004 Elected to *Senior Member of the IEEE*, **USA**
- 1999 Awarded *Tan Chin Tuan Exchange Fellowship in Engineering*, Nanyang Technological University (NTU), **Singapore**
- 1994 *Registered Chartered Engineer*, UK Engineering Council
- 1987 Awarded *The Electronic & Communications Engineering Departmental Prize*, Polytechnic of North London
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International Academic Sabbaticals

- 2019, 21 1 month, *Visiting Professor*, Research Institute of Electrical Communication, University of Tohoku, Sendai, **Japan**
- 2017 1 week, Academic Visitor, Department of ECE, National University of Singapore (NUS), **Singapore**
- 2010-11 1 year, *Visiting Academic*, Institute for Photon Science and Technology, University of Tokyo, Tokyo, **Japan**
- 2002 1 month, *Guest Researcher*, National Institute of AIST, Tsukuba, **Japan**
- 1999 3 months, *Exchange Fellow*, School of EEE, Nanyang Technological University (NTU), **Singapore**
- 1988 3 months, *Stagiaire*, Alcatel Espace, Toulouse, **France**

Professional Activities

Professional and Learned Society Committees

2018	TERANET V2 Steering Group
2016-2018	IEEE MTT-S AdCom's Technical Committee for Terahertz Technology and Applications (MTT-4) (USA)
2014-2018	EPSRC Terahertz Network (TeraNet) Steering Group
2007-16	IoP Fellowship Applications Panel Member and past Chair (2008)
2013-14	EU Management Committee for COST Action IC1301 (WiPE), representing the UK (Brussels)
2011-14	IEEE MTT-S AdCom's Image and Visibility Committee (USA)
2011-14	IET RF & Microwave Technology Network Executive Team
2000-14	IEEE MTT/ED/AP/LEO Technical Societies Joint Chapter's AdCom for the United Kingdom & Republic of Ireland (UKRI) Section of Region 8 Member and Treasurer
2010-12	EuMA General Assembly, representing Group 4 (UK, Ireland, Gibraltar, Malta)
2010-12	EuMA Steering Committee
2005, 11	IEEE Senior Member Review Panel
2004-07	EU FP6-507352 AMICOM Network of Excellence Summer Schools (Brussels) Steering Committee Chair
1998-00	IEE Professional Group Committee E12 Member and Editor of the E12 Newsletter

International Journal Publishing Activities

2012-16	Editorial Review Board for <i>IEEE Transactions on Terahertz Science and Technology</i>
2014-16	Editorial Board for <i>Wireless Power Transfer</i> , Cambridge University Press
2007-14	Editorial Board <i>IET Microwaves, Antennas & Propagation</i>
2012	Guest Editor <i>EuMA International Journal of Microwave and Wireless Technologies</i> , Cambridge University Press, Special Issue on EuMW 2011
2007-09	Technical Committee <i>PIERS Online</i>
2005-09	Associate Editor <i>IEEE/ASME Journal of Microelectromechanical Systems</i>
2002-05	Editor-in-Chief <i>Taylor & Francis International Journal of Electronics</i>
2001-03,	Editorial Review Board for <i>IEEE Transactions on Microwave Theory and Techniques</i>
1995-97	

Selected Conference Activities

2016	Co-chair, <i>11th European Microwave Integrated Circuits Conference (EuMIC)</i> , London
2015	Co-chair, <i>EPSRC-TERANET Workshop on Biological and Medical Applications of THz Technology</i> , London
2013	Co-chair, <i>27th ARMMS RF & Microwave Society Conference</i> , Wyboston Lakes
2011	Chair, <i>41st European Microwave Conference (EuMC)</i> , Manchester
2002	Chair, <i>7th IEEE High Frequency Postgraduate Student Colloquium (HFPSC)</i> , London

International Conference Technical Program Committees (TPCs)

IEEE International Conference on Micro Electro Mechanical Systems (MEMS 2017), Las Vegas, **USA**

Asia-Pacific Microwave Conference (APMC 2016), New Delhi, **India**

European Microwave Conference (EuMC):

2016 London	2015 Paris, France
2012 Amsterdam, The Netherlands	2011 Manchester
2010 Paris, France	2009 Rome, Italy
2008 Amsterdam, The Netherlands	

IEEE Wireless Power Transfer Conference (WPTC 2015), **USA**

IEEE Mediterranean Microwave Symposium (MMS 2015), **Italy**

Mediterranean Microwave Symposium (MMS):

2015 Lecce, Italy	2010 Cyprus
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Progress in Electromagnetics Research Symposium (PIERS)

2012 Kuala Lumpur, Malaysia	2011 Suzhou, China
2010 Cambridge, USA	2010 Xi'an, China
2009 Beijing, China	
2008 Cambridge, USA	2008 Hangzhou, China
2007 Prague, Czech Republic	2007 Beijing, China

IEEE MTT-S International Microwave Workshop Series (IMWS 2011) on Millimeter Wave Integration Technologies, **Spain**

Learned Society and International Conference Invited Lectures

Non-EML/DML Invited International Conference/Workshop Presentations (* Unpublished)

2023	<i>IS3DPAM2023, <u>Keynote</u></i>	
2022	<i>IET Colloquium, Online</i>	
2020	<i>RFIT, Japan</i>	
2019	<i>IMWS-AMP, Germany</i>	
2018	<i>IMWS-AMP, USA</i>	
2017	<i>IEEE IMS Workshop, USA</i>	
2016	<i>ESA/ESTEC, The Netherlands *</i>	<i>SPIE Optics + Photonics</i>
	<i>URSI AP-RASC, Korea</i>	<i>IMWS-AMP, China</i>
	<i>EMN Meeting on Terahertz, Spain</i>	
2015	<i>M/TAW, <u>Keynote</u>, China *</i>	<i>APMC, China</i>
	<i>IMOC, <u>Brazil</u> *</i>	<i>ICCP, <u>Keynote</u>, China *</i>
	<i>GSMM, Canada</i>	<i>AnalytiX, China</i>
2014	<i>IMWS-Bio</i>	<i>IEEE AP/MTT University of Texas at Austin, USA *</i>
2013	<i>APMC, Korea</i>	<i>NATO Workshop, Ukraine</i>
	<i>EuCAP, two papers, Sweden</i>	
2012	<i>IEEE IMS Workshop, Canada</i>	<i>IWWETH, Belgium</i>
2011	<i>APMC, Australia</i>	<i>IWWETH, The Netherlands</i>
	<i>GDMS, <u>Plenary</u>, Japan *</i>	
2010	<i>APMC, Japan</i>	<i>EuMC, France</i>
	<i>C-E WMTT, China</i>	<i>IEEE IMS, USA</i>
2009	<i>ICMEMS, <u>Plenary</u>, India</i>	
2008	<i>APMC, China</i>	<i>IUMRS-ICA, Japan</i>
	<i>Int. Conf. of CSMNT, <u>Plenary</u>, China *</i>	<i>Int. Workshop on Metamaterials, Singapore *</i>
2007	<i>APMC, Thailand</i>	<i>TARGET Workshop, Italy *</i>
2006	<i>MEMSWAVE Workshop, <u>Plenary</u>, Italy *</i>	<i>DTI/FO UK-Korea Nanotechnology Forum, Korea *</i>
2005	<i>MWE, Japan</i>	<i>NATO Workshop, Italy *</i>
	<i>CAS, <u>Plenary</u>, Romania</i>	<i>ICMAT and IUMRS-ICAM, two papers, Singapore</i>
2004	<i>APMC, India</i>	
2003	<i>IEEE/IEE MIDAS Workshop</i>	
2002	<i>Wireless Design Conference, <u>Keynote</u></i>	
1993	<i>Eurochip Workshop on VLSI Design Training, Spain</i>	

EuMA European Microwave Lecturer (EML): *An Engineering Approach Towards Creating Ubiquitous THz Applications*

2017	<i>IET Lecture</i>	<i>IEEE Seminar, NUS, Singapore</i>
2016	<i>IMWS-AMP, <u>Keynote</u>, China</i>	<i>IET Colloquium, <u>Keynote</u></i>
2015	<i>IMOC, <u>Plenary</u>, Brazil</i>	<i>ICCT, <u>Keynote</u>, China</i>
	<i>GeMiC, <u>Keynote</u>, Germany</i>	<i>University College London</i>
2013	<i>ARMMS Conference</i>	<i>MSMW, <u>Plenary</u>, Ukraine</i>

IEEE MTT-S *Distinguished Microwave Lecturer (DML): Commercial Applications for RF MEMS*

2013	<i>ENSEA, France</i>	<i>Kasetsart University, Thailand</i>
(Emeritus)	<i>Chinese University of Hong Kong, China</i>	
2012	<i>ENSEA, France</i>	
	<i>ESIEE, France</i>	<i>APMC, <u>Plenary</u>, Taiwan</i>
	<i>City University, Hong Kong, China</i>	<i>Clastech2012, USA</i>
	<i>Seoul National University, Korea</i>	<i>Sogan (Korea) University, Korea</i>
	<i>University of Pavia, Italy</i>	<i>Warsaw University of Technology, Poland</i>
	<i>National University of Singapore, Singapore</i>	<i>MMWCST, <u>Keynote</u>, China</i>
	<i>Chiang Mai University, Thailand</i>	<i>University of Malaga, Spain</i>
2011	<i>RFM, <u>Keynote</u>, Malaysia</i>	<i>A*Star, Singapore</i>
	<i>APMC, Australia</i>	<i>YSC, <u>Keynote</u>, Ukraine</i>
	<i>IMWS and RFID-TA, <u>Keynote</u>, Spain</i>	<i>Tohoku University, Japan</i>
	<i>ARMMS Conference</i>	<i>Chulalongkorn University, Thailand</i>
2010	<i>IEICE Microwave Workshop, Japan</i>	<i>Applications Centre ISRO Ahmedabad, India</i>
	<i>COST IC0803 Meeting, Switzerland</i>	<i>EuMW, France</i>
	<i>University of Leeds</i>	<i>UNAMems, Mexico</i>
	<i>SPJW, <u>Keynote</u>, Japan</i>	

External University Activities

National and International Research Project Evaluator: Panel Memberships (PM) and Proposal Reviews (PR)

2010,17,20,23-24	Qatar Foundation's Qatar National Research Fund (QNRF), PR
2018-21, 23	Cyprus Research Promotion Foundation (RPF), PR
2023	National Research Foundation, Singapore , PR
2018-21, 23	National Science Centre, Poland , PR
2013, 16-23	Hong Kong Research Grant Council (RGC), PR
2011, 15, 22	Austrian Science Fund (FWF), PR
2021	Beijing Institute of Technology, PR
2021	EPSRC National Research Facility 'Statement of Need' Panel, PM
2018, 20	Royal Academy of Engineering (RAEng) for Research Fellowship scheme, PR
2017, 20	Canada Foundation for Innovation, Toronto, Canada , PM
2016, 20	Swedish Knowledge Foundation Proposal and Final Report, on behalf of the Mid Sweden University, PR
1997-present	EPSRC Peer Review College
2018-19	German Research Foundation (DFG), Germany , PM
2017	Republic of Kazakhstan , Ministry of Education and Science, PR
2017	Netherlands Organisation for Scientific Research (NOW), PR
2017	Israeli Ministry of Science, Technology and Space, PR
2017	Canada Foundation for Innovation, Toronto, Canada , PM
2016	UK India Education and Research Initiative (UKIERI), British Council, PR
2016	Portuguese Instituto de Telecomunicacoes, PR
2013, 15	Italian Ministry for Education, University and Research (MIUR), PR and rapporteur
2012-15	European Commission – Reviewer for FP7-ICT Project 257964 NANOTEC, Brussels, Belgium €10M Large-scale Integrating Project, with 17 partners over 47 months, PM
2013	Canada Council for the Arts, PR
2012	Swiss National Science Foundation (SNSF), PR
2011	Greek Ministry of Education - THALIS Phase II Research Program, PR
2007	European Commission – Seventh Framework Programme, Brussels, Belgium , PM and rapporteur
2007	Irish Research Council for Science, Engineering and Technology (IRCSET), Dublin, Ireland , PM
1998, 05	EPSRC Responsive Mode Grant Assessment Panels, PM

University/Laboratory: Examiner/Reviewer/Assessor

2023	Imam Abdulrahman Bin Faisal University (formally University of Dammam), Scientific Council, Saudi Arabia External Reviewer for Full Professor promotion
2021	Beijing Institute of Technology (BIT), China , External Reviewer for Full Professor promotion
2017-21	National University of Ireland, University College Cork, Department of Electrical and Electronic Engineering External Examiner for the B.E. and M.Eng.Sc. degree programmes, Ireland
2020	Applied Science Private University (ASU), Faculty of Engineering, Jordan Evaluation for academic promotion
2019	University of Dammam, College of Engineering, Saudi Arabia Referee for tenured academic promotion
2015-18	King Fahd University of Petroleum & Minerals (KFUPM), Research grant evaluation, Saudi Arabia
2017	The Chinese University of Hong Kong (CUHK), External Reviewer for Mock Research Assessment Exercise (RAE) of Faculty of Engineering, China
2017	Universiti Tunku Abdul Rahman (UTAR), Assessor for promotions, Malaysia
2017	Association of Commonwealth Universities, Assessor for promotion
2017	A*STAR Review of Nomination for the President's Technology Award, Singapore
2016	Foundation for Research and Technology (FORTH), Assessor for promotion, Greece
2016	University of Sharjah, Assessor for promotion, UAE
2015	Cardiff University, School of Physics and Astronomy Reviewer of proposals for new MSc in Physics and MSc in Astrophysics
2013	Research Institute of Electrical Communication, Tohoku University, Sendai, Japan Reviewer for the Advanced Wireless Information Technology Laboratory, Broadband Engineering Division
2009-13	University of Leeds, School of Electronic and Electrical Engineering External Examiner for BEng and MEng degree programmes
2009-10	University of Leeds, School of Electronic and Electrical Engineering Examiner for MSc in Nanotechnology and Advanced Electronic Devices
2007	Nanyang Technological University, School of Electrical and Electronic Engineering, Singapore Assessor for Tenure
2007	Nanyang Technological University, School of Mechanical and Aerospace Engineering, Singapore Reviewer for new appointments

Research Student Examiner

2023	Manish Singh	PhD	PDPM IIITD and M, India
2023	Robert Jones	PhD	Queen Mary University of London
2019	Temitope Odedeyi	PhD	University College London
2019	John Bui McClean	PhD	Imperial College London
2019	Yasameen F. Azeez	PhD	University of Kent
2017	Sachin Agrawal	PhD	Indian Institute of Information Technology
2017	Robin Nag	PhD	University of Kent
2017	Yang Zeng	PhD	Queen Mary University of London
2015	Sam Rowe	PhD	Cardiff University
2015	Sarah Louise Heywood	PhD	University of Nottingham
2015	Andrew J. Farrall	PhD	University of Kent
2014	Paras Chawala	PhD	Thapar University, India
2014	Huhammad Yameen Sandhu	PhD	University of Leeds
2012	Charalampos Fragkidakis	PhD	Cranfield University
2010	Ruo Feng Xu	PhD	University of Kent
2010	Jaibir Sharma	PhD	IIT Madras, India
2009	Peng W. Wong	PhD	University of Leeds
2008	Themis Prodromakis	PhD	Imperial College London
2008	Kwok Wai Lau	PhD	CityUHK, China
2008	Carlos Law	MPhil	CUHK, China
2008	Nandi Logan	PhD	University of Bradford
2007	Lai B. Lok	PhD	University of Leeds
2005	Chong Chon Ng	MPhil	CUHK, China
2005	Novak E. S. Farrington	PhD	University of Leeds
2005	Mi Lin	MPhil	University of Cambridge
2004	Danhong Shi	MEng by Research	NTU, Singapore
2001	Aik C. Ng	MEng by Research	NTU, Singapore
2000	Kian S. Ang	PhD	University of Surrey

Internal Research Supervision**Research Fellows**

Principal (P) or co-(C) supervisor for the following full-time researchers:

2017, 20	Dr Enrique Marquez-Segura (P)	3-month sabbatical from University of Malaga, Spain
2014-17	William J. Otter (P)	3 years: EP/M001121/1
2014-17	Dr Munir M. Ahmed (P)	3 years P/T: EP/M001121/1
2015-16	Dr Xu Zhang (P)	1-year sabbatical from Nankai University, China
2015-16	Dr Fangjing Hu (P)	9 months: eFUTURES and IC-CiC
2015-16	Dr Zhengwei Wang (P)	1-year secondment from Sichuan Jiuzhou Electric Group Co., China
2013-14	William J. Otter (P)	6 months: EESE_P47587
2013-14	Christopher Kwan (C)	6 months: EESC_P47751
2013-14	Xiaoxin Liang (P)	1-year sabbatical from Chinese Academy of Sciences, China
2012-13	Manuel Pinuela (P)	6 months: EESE_P43676
2012-13	James Lawson (C)	6 months: EESC_P43681
2012-13	Professor Marcos T. de Melo (P)	1-year sabbatical from Federal University of Pernambuco, Brazil
2012	Juan José Sanchez-Martinez (P)	3-month sabbatical from University of Malaga, Spain
2011-12	Manuel Pinuela (P)	6 months: EESE_P39078
2010	Dr Yun Zhou (P)	EPSRC: EP/E063500/1
2004-06	Dr Michael P. Larsson (P)	EPSRC: GR/S97019/01
2004-06	Dr Hong Wen Jiang (P)	EPSRC: GR/S57013/01
2004-05	Kenichi Miyaguchi (P)	1-year secondment from Mitsubishi Electric, Japan
2004	Professor Xiaoxia Zhang (P)	6-month sabbatical from UESTC, China
2003	Dr Paul R. Young (C)	EPSRC: GR/N06366/01
1997-02	Christos E. Chrisostomidis (P)	EPSRC: GR/L37595
1998-01	Dr Roy D. Forrest (C)	EPSRC: GR/M01418

Current PhD Students

2022- Ian William Rossuck
 2022- Xinhao Du
 2019- Saleh M. Komies (ARAMCO studentship)

Completed PhD Students

2024 Ran Cheng
“Advanced Machine Learning for Object Detection in Sub-Terahertz Images”

2024 Liyan Zhu
“Polymer-Based 3-D Printed Waveguide Components for Millimeter-wave and Terahertz Applications”

2023 Roshan Suresh Payapulli (**ESPRC Industrial-CASE with Airbus Group Limited**)
“Polymer-Based 3-D Printing of G-Band Metal-Pipe Rectangular Waveguide Components”

2022 Sang-Hee Shin
“Polymer-based Additive Manufacturing for Microwave and Millimeter-wave Applications”

2020 Hang Ren
“‘THz Torch’ Wireless Communications Links”

2019 Attique Dawood
“Fabry-Perot Resonators in Guided-wave Media”

2018 Jonathan A. Hazell
“New Slow Wave Structures for Travelling Wave Tubes”

2018 Jingye Sun
“‘Over the THz Horizon’ Thermal Infrared Technologies and Applications”

2015 Mario D’auria
“Low Cost Fabrication Processing for Microwave and Millimetre-Wave Passive Components”

2015 William J. Otter
“Technologies for Terahertz Frequency Sensing”

2014 Fangjing Hu (**Winner of the Eryl Cadwaladr Davies Prize for best Doctoral Thesis during 2014/15**)
“‘THz Torch’ Technology: Secure Thermal Infrared Wireless Communications Using Engineered Blackbody Radiation”

2014 Elpida Episkopou
“Reconfigurable Optically-controlled Waveguide for Terahertz Applications”

2014 Stergios Papantonis
“Investigation of Passive Electromagnetic Components with Metamaterials”

2013 Manuel Pinuela
“Ambient Energy Harvesting and Efficient DC-Load Inductive Power Transfer”

2013 Xuguo Huang
“Bulk Micromachined Trench-coupler Based Microwave Circuits”

2010 Kai Herbertz
“Design, Production and Characterisation of EBG Filters”

2009 Yun Zhou
“Reconfigurable Terahertz Integrated Architecture (RETINA)”

2008 Joo-Young Choi
“RF MEMS Switches for High Power Applications”

2006 Jun Su Lee
“Bulk Micromachined Electrothermal Microactuator using the Hydraulic Force of a Phase Change Material”

2005 Suneat Pranonsatit
“Enabling Fabrication Technologies for Advanced RF MEMS”

2003 Ioannis D. Stamatopoulos
“Analytical Techniques for Modelling the Laminated Waveguide”

2003 Christos E. Chrisostomidis
“Chained Function Filters – Theory and Applications”

2001 Douglas S. McPherson
“Circuits and Systems for 77 GHz MMIC Software Radar”

2000 Yuanxing Zheng
“Microsatellite Radar Altimeter Payload Design for Global Sea State Monitoring”

Publications

Refereed Journal Papers

1. S. Komies, J. Sun, C. Hodges, S. Lynch, J. Watson and S. Lucyszyn, "Low-Cost Thermal-Infrared 'THz-Torch' Spectroscopy", *IEEE Access*, vol. 12, pp. 21868-21885, Feb. 2024.
2. R. Cheng and S. Lucyszyn, "Few-shot concealed object detection in sub-THz security images using improved pseudo-annotations", *Scientific Reports*, Nature Publishing Group, Sci. Rep. 14, 3150, pp. 1-9, Feb. 2024.
3. L. Zhu, S.-H. Shin, R. Payapulli, I. W. Rossuck, N. Klein, N. M. Ridler, and S. Lucyszyn, "3-D printed THz waveguide components", *IEEE Access*, vol. 11, pp. 79073-79086, Aug. 2023.
4. L. Zhu, I. W. Rossuck, R. Payapulli, S.-H. Shin, and S. Lucyszyn, "3-D printed W-band waveguide twist with integrated filtering", *IEEE Microwave and Wireless Technology Letters*, vol. 33, no. 6, pp. 659-662, Jun. 2023.
5. R. Payapulli, L. Zhu, S.-H. Shin, M. Stanley, N. M. Ridler, and S. Lucyszyn, "Polymer-based 3-D printed 140 to 220 GHz metal waveguide thru lines, twist and filters", *IEEE Access*, vol. 11, pp. 32272-32295, Apr. 2023.
6. L. Zhu, S.-H. Shin, R. Payapulli, T. Machii, M. Motoyoshi, N. Suematsu, N. M. Ridler, and S. Lucyszyn, "3-D printed rectangular waveguide 123-129 GHz packaging for commercial CMOS RFICs", *IEEE Microwave and Wireless Technology Letters*, vol. 33, no. 2, pp. 157-160, Feb. 2023.
7. S.-H. Shin, R. Payapulli, L. Zhu, M. Stanley, X. Shang, N. M. Ridler, and S. Lucyszyn, "3-D printed plug and play prototyping for low-cost sub-THz subsystems", *IEEE Access*, vol. 10, pp. 41708-41719, Apr. 2022.
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