Female talent in engineering and photonics: the way up

Panelist biografies

Lena Wosinska received her PhD degree in Photonics and Docent degree in Optical Networks from KTH Royal Institute of Technology, Sweden where she was a Full Professor of Telecommunication until October 2018. At KTH she established a world leading research group working on optical networks. Currently she is a Research Professor in Chalmers University of Technology, Sweden, where she moved together with her team. She has been working in several EU projects and coordinating several national and international research projects. She has been involved in many expert assignments, including serving in the panels evaluating research project proposals for many funding agencies, guest editor- ships of IEEE, OSA, Elsevier and Springer journals, serving as General Chair and Co-Chair of several IEEE, OSA and SPIE conferences and workshops. She has been an Associate Editor of OSA Journal of Optical Networking and IEEE/OSA Journal of Optical Communications and Networking. Currently she is serving on the Editorial Board of Springer Photonic Networks Communication Journal and of Wiley Transactions on Emerging Telecommunications Technologies.

Jelena Pesic received a Ph.D. from the University of Bretagne Sud in collaboration with France Telecom–Orange Labs, France, in 2012. From 2012 to 2014, she was a postdoctoral fellow at INRIA and Telecom Bretagne working on the European project SENDATE and SASER. She received a best paper award at the IEEE ONDM conference in 2011. After joining Alcatel–Lucent (now Nokia) Bell Labs in 2014, she focused on dynamic elastic networks dimensioning and techno-economic studies. In 2018 she was elected as OSA Ambassador and since Jun 2020 she is working as Systems Integration Specialist at Nokia Business Group. She is as a member of the Optics & Photonics News Editorial Advisory Committee and one of the editors of the JOCN special edition on Machine learning for QoT estimation.

Carmen Vázquez is Full Professor at Electronics Technology Department of Universidad Carlos III de Madrid (UC3M), Spain. She is leader of Displays and Photonics Applications Group and Head of Master Sc degrees on Photonics Engineering and on Electronics Systems Engineering. She was Vice-President of Postgraduate Studies, Quality and Infrastructures for 4 yrs and Department Head for 3 yrs. She was Visiting Scientist at RLE in Massachusetts Institute of Technology for 1 yr, working on silicon photonics. She received her Ph.D. degree in 1995 from Polytechnic University of Madrid. MSc Physics-Electronics in 1991 at Complutense University of Madrid and she got a fellowship at TELECOM (Denmark). She worked at Optoelectronics Division of Telefónica I+D. She has participated in European projects in ESPRIT, RACE, IST and Horizon 2020 such as PLANET, OMAN, HEMIND, SAMPA, EPhoton/One+, BONE, ... She was Principal Investigator (PI) of BlueSPACE (*Building on the Use of Spatial Multiplexing 5G Networks Infrastructures and Showcasing Advanced technologies and Networking Capabilities*). PI of national research projects, such as SINFOTON2-CM (http://www.sinfoton-cm.es/). Her research interest focus on integrated optics and optical communications including: power over fiber, broadband access networks and monitoring techniques, RoF systems, plastic optical fibers, fiber optic sensors and 5G & WDM networks. She is SPIE fellow, IEEE senior (IEEE Emerging Technologies Task Force) and OSA member. She was the president of the Optoelectronics Committee at Spanish Society of Optics. She has published more than 290 scientific publications, more than 85 JCR and holds 7 patents.

Achim Autenrieth is currently working as Director Advanced Technology at ADVA Optical Networking, where he is leading the research activities on networking technologies including SDN control and automation of disaggregated optical transport networks, and design and evaluation of multilayer networks. He received his Dipl.-Ing. and Dr.-Ing. degree in Electrical Engineering and Information Technology from the Munich University of Technology, Germany, in 1996 and 2003.
Since a few years Achim supports ADVA's engagement in the annual national Girls' Day for equal opportunity to motivate girls and women to take up technical and scientific professions. (Girls' Day is a national initiative intended to help increase the proportion of female employees in so-called "men's jobs" and reduce a shortage of skilled workers in industry that is assumed or forecast for the future).

Madeleine Glick is currently a Senior Research Scientist at Columbia University. She received her Ph.D. in Physics from Columbia University and later continued research on optical properties of III-V materials at the Department of Physics, Ecole Polytechnique Federale de Lausanne (EPFL) Lausanne, Switzerland and was a Research Associate with CERN, Geneva, Switzerland. From 2002-2011 Madeleine was Principal Engineer at Intel Research leading research on optical interconnects for data centers. Her current research interests are in applications of photonic devices and optical interconnects to computing systems. Madeleine is a Fellow of the Institute of Physics and the Optical Society of America (OSA) and a Senior Member of IEEE. She is currently a member of the IEEE Technical Activities Board (TAB) Financial Committee and the IEEE TAB representative to IEEE Women in Engineering (WIE). In WIE she is chair of the subcommittee for TAB and Society Liaisons and a member of the Nominations and Appointment Committee. She has served on several committees in the IEEE Photonics Society where she initiated the Photonics Society Technical Skills Educator Award and has served on the award Committee, 2020, 2021. She also participates in the Photonic Society mentoring programs.