



ANGELA C. TAYLOR was born in Dartford, U.K. and studied Natural Sciences with Cambridge University. She received the Ph.D. degree in radio astronomy from the Cavendish Laboratory, Cambridge, U.K., in 2002. She continued to work in the field of astrophysics and instrumentation as a postdoctoral research assistant with the Cavendish Laboratory until 2005 when she moved to the University of Oxford as a founding member of the Experimental Cosmology Group. She is currently a Professor of Experimental Astrophysics with the

University of Oxford working on a range of cosmology and instrumentation projects. She is a Co-Investigator on the SKA project within Oxford, with specific responsibility for the Band 345 single pixel feed sub-element development in the SKA dish consortium.



ROBERT E. J. WATKINS was born in Cardiff, U.K., in 1949. He received the B.Sc. degree (first class Hons.) in electronic engineering from the University of Salford, Salford, U.K., in 1971 and the D.Phil. degree from the University of Sussex, Brighton, U.K., in 1978 for his work on the effects of high dose ion implantation into metals. After a number of Postdoctoral positions with AERE Harwell (U.K.) and the University of Trento (Italy) he took up a position with the Department of Engineering Science, University of Oxford, in 1981,

and then moved to the Department of Atmospheric, Oceanic and Planetary Physics, in 1985, where he worked continuously on test and calibration facilities for space-borne instrumentation. Since 2016, he has been involved with the design and construction of the SPF-B5 cryostat for the Square Kilometre Array, with the work being carried out with the Department of Astrophysics, University of Oxford.



LEI LIU was born in Zhengzhou, China, in 1985 and studied computer science with Nanjing University of Posts and Communications. He received the Ph.D. degree in microwave engineering from Northumbria University, Newcastle upon Tyne, U.K., in 2013. He then worked in the field of astrophysics and instrumentation (development of phased array feed technology) as a Research Associate with Jodrell Bank Observatory, University of Manchester. In 2018, he became a Senior Researcher at Experimental Cosmology group for

SKA mid-receiver development with the Department of Physics, University of Oxford.



ANDRE HECTOR was born in Lviv, Ukraine, in 1991. He received the M.Sci. degree in physics from Royal Holloway, University of London, London, U.K., in 2013, and the D.Phil. degree in millimeter-wave receiver technology from the University of Oxford, Oxford, U.K., specializing in the design and development of cryogenic receivers, feeds and local oscillators. In 2018, he joined the SKA project in Oxford, working as a Researcher on the development of the Band 345 system.



BIAO DU was born in Shijiazhuang, China, in 1962. He received the B.S. degree in electronic engineering from Xidian University, Xi'an, China, in 1983, and the M.S. degree in electromagnetic field and microwave technology from the 54th Research Institute of China Electronics Technology Group Corporation (CETC 54) and the Ph.D. degree in electronic engineering from Shanghai University, Shanghai, China, in 1987 and 1996, respectively.

From 1987 to 1999, he joined CETC 54 as an antenna design engineer and a senior engineer, Shijiazhuang. From 1999 to 2000, he was a Visiting Scholar with the Department of Electronic Engineering, City University of Hong Kong, Hong Kong. He is currently a Professor, a Chair Expert, and a Deputy Chief Engineer with the CETC54. He is the chief designer of Shanghai 65m Tian Ma radio telescope antenna and Square Kilometre Array Dish Prototype (SKA-P). In 2019, he was appointed as a Guest Professor position with Xidian University. He has authored more than 100 academic papers. His research interests are in reflector antennas, corrugated horns, ultra-wideband feeds, microstrip antennas, phased array antennas, and metamaterial antennas.

Prof. Du is a Fellow of Chinese Institute of Electronics. He was the recipient of Bao Gang Education Award for the excellent students in 1995. He obtained the special allowance of the State Council of China for his outstanding contribution in natural science in 2016. He also received eight Science and Technology Progress Awards.



YANG WU was born in Shijiazhuang, China, in 1984. He received the Ph.D. degree from Xidian University, Xi'an, China, in 2013.

From September 2014 to April 2017, he worked with National Astronomical Observatory, Chinese Academy of Sciences as a Postdoctor. Now, he joined the 54th Research Institute of CETC, Shijiazhuang, China, where he is primarily involved in the design of antennas and feed systems for radio astronomy.

Dr. Wu is leading the band 4 and band 5 feed assemblies development of the single pixel feed sub-element in the dish consortium.