

Anniversary Workshop Speakers



Long-Wavelength VCSELs: Devices and Applications

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Markus-Christian Amann received the Diplom degree in electrical engineering in 1976 and the Dr.-Ing. degree in 1981, both from the Technical University of Munich. During his thesis work he studied superluminescent diodes and low-threshold laser diodes and developed the AlGaAs-GaAs metal-clad ridge-waveguide laser. From 1981 to 1994 he was with the Corporate Research Laboratories of the Siemens AG in Munich where he was involved in the research on long-wavelength InGaAsP-InP laser diodes. In 1994 he joined the Department of Electrical Engineering at the University of Kassel as a full professor for “Technical Electronics”. Since 1997 he holds the Chair of “Semiconductor Technology” at the Walter Schottky Institute of the Technical University of Munich, where he is currently engaged in the research on tunable laser diodes for the near infrared, quantum cascade lasers, long-wavelength vertical-cavity laser-diodes (VCSELs) and laser diode applications. In 2001 he was a co-founder of VERTILAS GmbH, Garching, commercializing the long-wavelength VCSELs. He authored or co-authored more than 700 articles (including about 80 invited) on semiconductor optoelectronics in scientific journals and conference proceedings, and co-authored two books. In 1981 he was a recipient of the ITG-prize, in 2004 he won the Karl Heinz Beckurts-prize and in 2009 the Kaiser Friedrich Forschungspreis. He is a member of the German Informationstechnische Gesellschaft (ITG), and a Fellow of the IEEE Lasers and Electro-Optics Society .