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Plenary talk

Laser processing: Solutions for industry

Laser-based processes have matured to widely accepted tools in industry. Laser sources ranging from a few watts to multi kilowatts in power provide manufacturing solutions for a wide spectrum of applications in many sectors. Based on high technical maturity levels and proven economic benefits, scientists and engineers are nevertheless constantly pushing the envelope to open up new horizons in laser processing. The presentation is highlighting examples of latest achievements and trends in process development, systems technology and new fields of application.

About the speaker

Prof. Dr.-Ing. Christoph Leyens studied physical metallurgy and materials technology at RWTH Aachen, Germany, where he earned his diploma in 1993 and his Ph.D. in 1997. He is currently a full professor for materials science and engineering at TU Dresden, Germany, and director of the Fraunhofer Institute for Material and Beam Technology, Dresden.
Prof. Leyens has covered a wide range of research topics with a focus on high temperature and lightweight materials, surface technology and additive manufacturing. He has published more than 250 papers, 16 books and book chapters and holds eleven patents.