

Speaker Biography

John M. Haake

Titanova, Inc. was formed in 2008 by John Haake. Centrally located in St. Charles, MO, Titanova is a laser job shop providing contract manufacturing services utilizing the highly efficient laser diodes.

Before founding Titanova, Inc., John Haake, previously was Director/Product Line Manager for Coherent/Nuvonyx Direct Diode Laser Systems [St. Louis, MO]. Mr. Haake started his career at McDonnell Douglas Laser Systems in the area of advanced diode based laser weapon systems under the “Star Wars” program and subsequently applied laser diode technology for the purpose of advanced high speed carbon composite aerospace structure fabrication. Mr. Haake co-founded Nuvonyx, Inc. in 1998 and was the primary driver towards the commercialization of high power industrial diode [semiconductor] lasers. In 2005 Nuvonyx, Inc. was acquired by ICXT [Alexandria, VA] and in 2007 was sold to Coherent, Inc. [Santa Clara, CA]. During this 10-year period of developing the industrial diode laser systems and markets for Nuvonyx, Inc., Mr. Haake has developed many novel processes that take advantage of the unique properties of direct diode lasers. Mr. Haake is known world wide for his expertise in the area of diode laser systems and diode laser processing and has authored and presented many papers on the subject and has 27 patents. Mr. Haake founded Titanova, Inc. to provide industry with diode laser process development, contract manufacturing services and diode laser system integration. Titanova, Inc. is the most complete full service diode laser contract manufacturing service shop in the nation. Titanova was certified ISO:9001:2008 certified in September 2009. Titanova received S and U stamp certification from ASME and R stamp certification from NBIC. John Haake or Titanova are members of ASM, ASME, AWS, CAMT and NTMA

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John M. Haake

EDUCATION

BS Electrical Engineering, 1986 University of Missouri - Rolla

MS Electrical Engineering, 1988 University of Missouri - Rolla

Mr. Haake is the President and owner and principal investigator for Titanova, Inc. Mr. Haake was previously Director of Applications Engineering and Product line Manager for Highlight Direct diode Laser Coherent, Inc. His duties were the managing of the direct diode application lab, service and sales of direct diode laser systems for Coherent, Inc. His responsibilities also included research and development of new diode laser cladding, heat treating, and welding applications, write research papers, sales presentations, and technical sales. Mr. Haake is the Co-founder of Nuvonyx; Inc., which was the only USA manufacture of high power industrial diode laser systems and components. Nuvonyx was founded in 1998 and was acquired by Coherent Inc [COHR]

in April 2007. Mr. Haake primary contribution to Nuvonyx, Inc. was the packaging of laser diode bars such that an Industrial Semiconductor Laser could be used by industry. After the launch of the diode laser product Mr. Haake had the multiple roles within the company including VP- sales and marketing, VP - Business Development, VP- Engineering, and VP- Operations while at Nuvonyx. Mr. Haake has been involved in the development of the laser and applications for direct diode laser systems for 19 years. Previously, Mr. Haake was employed by McDonnell Douglas/Boeing and was involved in the development of high power laser diode systems for the military and aerospace industry, smart structures, and micro-electromechanical systems. He holds 27 patents with several pending. Mr. Haake is a member of NTMA, ASME, ASM, and AWS.