

Vitae



Dr. Gregory Flinn

Previous Experience:

Broad, 15 year experience in materials, optics and laser R&D

International project management and research collaboration within industry

Academic research & teaching at Universities in USA, UK & Germany

Business Development

Classical business development as well as strategic sales & marketing in the field of photonics technology, including in-depth market assessment of scientific, digital imaging, life sciences and optical storage applications.

Current Activities:

General article services for optical technology firms in an international setting, with a focus on companies wanting to publish into, or outside of the German (better: European) market.

Given in-depth knowledge of the appropriate technologies, certain clients are also offered consultation, business development, liaison and marketing services in the area of photonics, laser & optical (nano-) technologies, with the aim of accelerating the wide spread acceptance of any credible new technology.

See www.gregoryflinn.net for further information.

Curriculum Vitae

Name Gregory Patrick Flinn
Status Single
Nationality British
Date of Birth 11th July 1964

EDUCATION

1969 - 1981 Schooling in England & Wales, UK.

UNIVERSITY

Oct 1981 - Jun 1985 **Bachelor of Science, University of Birmingham, England:**
Physics, Laser Physics.

Sep 1985 - Jun 1986 **Master of Science, University of Essex, England:**
Laser technology and applications.

Jul 1986 - Dec 1986 Assorted work activities until year's end.

PHD THESIS

Dec 1986 - May 1991 **Dr. A.C. Tropper, University of Southampton, England**
Optically detected NMR and the Hanle-Effect in AlGaAs/GaAs semiconductor heterostructures (GEC Stipend 1987-1990).

POSTDOC

May 1991 - Sep 1991 **Dr. R.T. Harley, University of Southampton, England**
Further work on the methods developed for my PhD. Invited seminars at Fraunhofer Gesellschaft, Germany.

Oct 1991 - Jan 1992 Temporary position in biomedical research institute.

Feb 1992 - Apr 1992 **IRC, Imperial College, University of London, England**
Set-up of new laboratory facilities (laser, cryogenic & MBE growth apparatus).

Apr 1992 - May 1994 **Prof. R.S. Meltzer, University of Georgia, Athens, USA**
International cooperation with IBM Research & A.F. Ioffe Physico-Technical Institute, St. Petersburg: Laser spectroscopy (hole-burning, photon echo, laser microscopy) of doped crystals, glasses and phosphors. Construction of a "laser growth" system for rapid preparation of new crystalline types.

WORK EXPERIENCE

May 1994 - Aug 1995 **Assistant Professor, University of Georgia, Athens, USA**
Cooperation with LLNL & Schlumberger-Doll Research: Search for new phosphor materials, spectroscopy of YAG-based waveguide structures. Teaching duties as Assistant Professor in the Physics Faculty.

Jan 1996 - Jun 1998 **Lehrstuhl Prof. D. Suter, University of Dortmund, Germany**
International Cooperation: Optical studies of rare earth doped waveguides, optical and spin polarized spectroscopy of AlGaAs/GaAs semiconductor heterostructures.

Jul 1998 - Apr 2000 Break in career due to medical grounds.

May 2000 - Sep 2004

Business Development, TOPTICA Photonics AG
Fraunhoferstrasse 14, 82152 Martinsried, Germany.

www.toptica.com

TOPTICA has approx. 60 employees and was founded around 1998. Principally a champion of semiconductor-based solutions for laser applications, diode lasers are today available at a plethora of wavelengths spanning the UV to the FIR. Improvements in optical and driver performance now mean that such systems are finding an ever widening application in fields ranging from life sciences and laser confocal microscopy through to digital imaging and frontier scientific research. As of 2005, TOPTICA Photonics has branched out with a new and versatile femtosecond fiber laser for frequency metrology and life science applications.

Together with laser diode manufacturers and developers, TOPTICA's strategy is to identify markets and applications that call for high-end, technologically advanced products, with low volume at high profit margin. Often where alternative and older laser technologies had reached the limit of their development, end-users are usually open to alternative laser technologies, in particular where compactness, lifetime, reliability, performance as well as price are all critical considerations.

Activities: Project management:

Collaboration with project partners in a BMBF-Verbund, for the development of high performance fiber lasers for the heavy print industry (gravure). Such projects typically comprise collaboration between university research groups, independent research establishments and industrial partners, with one or more of the partners as end-user.

Activities: Business Development:

Classical business development and strategic sales & marketing for the application and propagation of semiconductor-based laser technology in established as well as new developing markets. Market research for scientific applications and for the development of scientific research into industrial technology as relevant to TOPTICA's capabilities, including creating opportunities within OEM markets in the fields of microlithography, print, metrology und disc mastering, and the looking for product placement in the field of life sciences.

With significant focus on furthering the use of UV, violet and blue laser diode wavelengths for OEM applications, this segment evolved to be the most important industrial activity and generated approximately a third of the total turnover. Over a period of 4 years, this focus had to be constantly reassessed due to continuous improvements in laser diode performance, thus allowing an ever-widening field of application.

Additional key activities were designed to improve general product awareness, e.g. through the placement of technical articles in the trade press, activities as speaker and technology consultant for various industrial markets, direct input in to marketing department as well as in to advertisement campaigns and product brochures.