

ZAFIRIOS GOURGOULIATOS, PH. D.

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EDUCATION

- 1986-1990 Ph.D. in Biomedical Engineering, 1990, The University of Texas at Austin, Biomedical Engineering Dept., Austin Texas (Doctoral Thesis in Photomedicine).
1984-1986 M.S. in Biomedical Engineering, 1986, The University of Texas at Austin, Biomedical Engineering Dept., Austin Texas.
1978-1983 B.S. in Electrical Engineering, 1983, The University of Patras, School of Engineering, Patras Greece.

PROFESSIONAL EXPERIENCE

- 2013 - present Regulatory Specialist, Leilux, Inc., Los Angeles, CA. Regulatory planning and plan execution for start-up and established medical device companies, covering organizational matters, product development, verification/validation, medical safety testing, documentation, technical file, agency/regulatory approvals, reimbursement, compliance with FDA, ISO 13485 and other national or international standards, supply chain, product liability, legal and intellectual property, cell phone medical apps.
- 2000 - 2013 Company Co-founder and Chief Technology Officer, Lerner Medical Devices, Inc., Los Angeles, CA. Development of fiber optic light sources for medical and industrial applications. Fundraising and company organization; successful grant applications, new product development (definition, specification, design, manufacturing set-up, 510(k) regulatory approval, product launching, organization of clinical trials, ISO registration). Intellectual property portfolio development.
- 1997-1999 Photomedicine Specialist - Senior Scientist, Bunsen Rush Laboratories, Inc., Los Angeles, CA. Feasibility studies, proposal writing, and business organization. The Small Business Innovative Research proposal for a "Novel Fiber Optic Light Source for Treatment of Scalp Psoriasis." was funded to the National Institutes of Health (SBIR-Phase I & II, \$850,000) and provided the seed money for Lerner Medical.
- 1992-1997 Biomedical Engineer - Project Leader, Cogent Light Technologies, Santa Clarita CA. Development of novel single fiber high power systems for medical and industrial applications implementing a patented light collection scheme.
- 1987-1991 Biomedical Engineer, at the Laser Institute of the Medical School of the University of Utah. Argon, Argon Dye, Metal Vapor, Nd:YAG and Free Electron Laser applications in medicine & biology, experiments with new photodynamic therapy drugs.
- 1986-1990 Research Assistant, University of Texas at Austin, Biomedical Eng. Dept...
Research on laser applications in medicine. Analysis of laser - tissue interaction, laser treatment of skin lesions, photodynamic therapy, optical instrumentation.
- 1985-1986 Electrical Engineer, Dell Computers, Austin, TX. Worked with Michael Dell at Dell Computers during its very early stages, while the company had just a dozen employees.

LANGUAGES

English, Greek, Spanish; Conversational French, Italian.

REFERENCES

Available upon request.

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PATENTS:

1. Compact surgical illumination system capable of dynamically adjusting the resulting field of illumination (USA Patent: 5,430,620, 1994).
2. Light intensity attenuator for optical transmission systems (USA Patent: 5,642,456, 1997).
3. Singular fiber to bundle illumination with optical coupler (USA Patent: 5,680,492, 1997).
4. Surgical luminaire (USA Patent: 5,709,459, 1998).
5. Light Source and Fiber-Optic Brush for Light Delivery (USA Patent: 8,206,426, 2012).
6. Fiber Optic Phototherapy Device (USA patent 8,523,925, 2013, Japan 5,188.510, 2013).
7. Fiber Optic Brush for Light Delivery (USA notice of allowance 6/25/13).

FELLOWSHIPS and GRANTS

- 2010 Therapeutic Discovery Grant -Patient Protection and Affordable Care Act of 2010 "Targeted Phototherapeutic Treatment of Psoriasis at Home" Competitive grant provided by the US government to projects with significant potential to produce new and cost saving therapies.
- 2000 National Institutes of Health, Small Business Innovative Research Grant (SBIR-Phase I & II) to design a "Novel Fiber Optic Light Source for Treatment of Scalp Psoriasis."
- 1989 Student Paper Contest Winner of the at the IEEE-EMBS Conference in Seattle WA.
- 1989 Research Grant from the American Society for Laser Medicine and Surgery for research on Light-Tissue Interaction.
- 1984 Fulbright Fellowship for Graduate Studies in the USA (full tuition and living expenses for MS program).

PUBLICATIONS and PRESENTATIONS (selected)

1. Z.F. Gourgouliatos, A.J. Welch, K.R. Diller, S.J. Aggarwal, "Laser Irradiation Induced Relaxation of Blood Vessels In Vivo," *Las. Sur. Med.*, 10:524-532, 1990.
2. Z.F. Gourgouliatos, A.J. Welch, K.R. Diller, "Microscopic Instrumentation and Analysis of Laser - Tissue Interaction in a Skin Flap Model," *J. Biomech. Eng., Trans. ASME*, Vol. 113, No. 3:301-307, 1991.
3. Z.F. Gourgouliatos, A.J. Welch, K.R. Diller, "Measurements of Argon Laser Light Attenuation in the Skin 'In Vivo' Using a Unique Animal Model," *Las. Med. Sci.*, Vol. 7 No.1, pp.63-7, 1992.
4. A. Taneja, A. Racette, Z.F. Gourgouliatos, C.R. Taylor "Broad-band UVB fiber-optic comb for the treatment of scalp psoriasis: a pilot study," *Int J Dermatol.* 2004 Jun; 43(6):462-7.
5. G. Rubinstein, Z.F. Gourgouliatos, "Successful Treatment of Psoriatic Plaques, Including Psoriatic Scalp Lesions, with Wavelength Optimized UV-B from a Short Arc Light Source," Poster Presentation at the *Amer Acad of Derm 65th Ann.Meeting, February 2-6, 2007, Washington, DC.*
6. Z Gourgouliatos, "Phototherapy Dosimetry for treatment at the office and patient's home," Invited Speaker at *Circulo Dermatologico del Peru, June 26-28, 2009, Lima, Peru.*
7. Z Gourgouliatos, "Targeted UVB Phototherapy of Psoriasis and Vitiligo Using a Compact, Short Arc Lamp Device," Invited Speaker at *Facial Aesthetic Conference and Exhibition (FACE), June 24-26, 2011, London, UK.*
8. Z Gourgouliatos, LJ Hornbeek, A Menter, "Home Based Targeted Ultraviolet B Phototherapy – Patient Experience and Clearance Rates" Poster Presentation at the *European Academy of Dermatology and Venereology (EADV) 20th Congress, Session: 30, Psoriasis, PO1081, October 20-24, 2011, Lisbon, Portugal.*
9. Z Gourgouliatos, LJ Hornbeek, "Home Based Targeted Ultraviolet B Treatment of Vitiligo – Patient Experience and Clearance Rates" Poster Presentation at the *European Academy of Dermatology and Venereology (EADV) 20th Congress, Session: 27, Pigmentary Disorders, PO1000, October 20-24, 2011, Lisbon, Portugal.*