

Curriculum Vitae

Livio Cognolato

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Birth place: Torino (ITALY)

Date: February 18th, 1957

Abstract

MD in Chemistry, achieved in 1981. Worked in several companies as Researcher and R&D Manager, Marketing and Business Development.

Specialist of micro-nanotechnologies for applications in ICT, MEMS and Life Science.

Scientific coordinator of some EU, national and local projects.

Expert evaluator of EC in FP6, FP7 and H2020 (disciplines: Telecom, ICT, Health)

Self-employed and owner of a technical/management consultancy enterprise.

Professional Profile

Graduated in Chemistry (MD degree), my career has mostly developed in R&D departments, where I managed large teams in different disciplines: from Photonics to Micro-Nanotechnologies, to Life Science.

I coordinated R&D consortia (with academic and industrial partners) participating to some EU funded projects, and sometimes worked as expert evaluator for EU Commission (FP6, FP7).

I have also played the role of Business Developer in Marketing dept. of a large company for the introduction of innovative products in human medical diagnostics and agro-food quality monitoring. I established many international contacts and carried out business and contractual negotiations with customers.

Besides technical experience, developed in several years in R&D groups, which brought to file at least 7 patents (other still pending) and more than 40 papers in international journals (see appendix), I developed a strong management skill, which allow me to manage human, financial and technical resources with efficiency and effectivity. I am expert to plan activities, optimize resources and schedule timelines, to meet both company needs and business opportunities (time-to-market).

Quality of communication and easy interaction are strengths of my professional profile: I have often given presentation to large and expert audience, both in technical and business areas.

I am currently self employed and manage as owner a technical/management consultancy enterprise.

Professional history

Oct. 2013 – Current

Self-employed at Pro-Jet Industrial Consulting.

The aim of Pro-Jet is supporting SMEs in R&D project management, both through help to access public funding and to develop business, by collaborative projects, enterprise networks and R&D institutions. The eyes of these activities are looking worldwide, leveraging on my previous large international experience.

Among partners collaborating in the past I can mention: Telecom Italia Lab, Università di Torino, Politecnico di Torino, Regional Hospital for Tumors of

Piemonte IRCCS Candiolo, Fraunhofer Institut IMM-Mainz (D), Sony DADC (A), national and European Universities, SMEs from several European countries, including Italy, France, UK, Germany, Spain, Switzerland,

2004-2013

R&D Unit Head and Life Science Business Developer

I joined Olivetti i-Jet, an operation company of Telecom Italia group, as R&D Unit responsible, The team was devoted to development and engineering of optoelectronics devices for application in Telecom. I acquired in this period strong relationship with big customers, developing skills in business development.

Since 2005 I managed as well all funded projects, sometimes with the role of scientific coordinator, especially in the area of Life Science.

Such experience guided me to head the Life Science Business development of Olivetti S.p.A., managing all business of the group in this field.

Since 2011, I added the responsibility of Business development in MEMS (Micro Electro-Mechanical Systems), leveraging on my previous strong experience in microelectronics technology.

2000-2004

Research Unit Executive Manager

I joined Agilent Technologies Italia in 2000, as R&D Manager of Optical Devices Unit. I have managed for 5 years a team of 17 skilled researchers, mostly PhD of Laurea level graduated.

I have been in charge of realizing micro-nanotechnologies laboratories, including "clean Rooms" devoted to photolithographic and related processes.

1986-2000

Research Unit Head

In 1986 I joined Telecom Italia Corporate Labs, to work as senior researcher in optical fibres technology R&D.

I managed business projects within Telecom Italia group and collaborative projects with other international companies and institution, especially in the frame of European programmes.

Since 1994, I headed the R&D unit "Optical Fibres Devices".

For 3 years, starting 1999, I have managed as Scientific coordinator the RTD European Project "LOBSTER" (project FP5 IST-1999 13322), completed with full success in 2002.

1982-1986

Researcher Junior

I have started my professional career as researcher at Olivetti Accessori SpA, a leader company in office services and products, in 1982.

My first target was the development of innovative inks for ink jet printing technology.

Education

1981

Laurea Degree in Chemistry at Università of Torino (score: 110/110).

During my professional career, I have continued to enrich my education, attending several management courses (often abroad), i.e. Project Management, Effective Communication, Negotiation, Leadership.

Languages

English: professional level

French: school level. I have attended for two years courses at Centre Culturel Francais in Torino

German: basic, I have attended for three years courses at Goethe Institut in Torino

APPENDIX

Patents

- 1988** Method of and Apparatus for Fabricating Silica Optical Fibres, CA1335486, 9-5-1995
- 1990** Method of fabricating optical fibres by the solution doping technique; IT1223980, 29-9-1990
- 1992** Fabricating strip waveguides by consolidating a Rare Earth-doped layer with a laser; US5411565, 5-2-1995
- 1992** Method of fabricating strip monomode active optical waveguides by vitrifying an internal portion of a tube with a laser; US5279634, 1994
- 2001** A method of producing optical waveguides in tellurite glass, EP1293810
- 2003** Hybridly Integrated Gain Blocks on Silicon Micro-Bench
- 2009** Process for assembling elements contacting biological substances, PCT/EP2009/067150

Papers

(a Selection)

- Stanghellini, P.L.; **Cognolato, L.**; Bor, G.; et al.
 "Identification of the IR frequencies of the interstitial carbon atom in some M_6C ($M=Fe, Ru$) carbonyl clusters by ^{13}C -enrichment"; Journal of Crystallographic and Spectroscopic Research vol.13, no.2 : 127-33, April 1983
- G. Cocito, **L. Cognolato**, E. Modone, G. Parisi, "Fluorine in MCVD optical fibres", Journal of Non-cryst. Solids, Vol. 93, (1987), pp. 296-302
- G. Cocito, **L. Cognolato**, E. Modone, B. Sordo, "Hydrogen in fibres: a comparison between the aging and simulated aging", Journal of Opt. Comm., Vol. 9 (1988) pp. 2-4
- G. Cocito, **L. Cognolato**, E. Modone, "Control of dip removal in single-mode fibres through observation of fluorinated species", Journ. Opt. Comm., Vol. 10 (1989), pp. 101-104
- L. Cognolato**, A. Gnazzo, E. Modone, B. Sordo, G. Cocito, "Fabbricazione e caratterizzazione di una fibra ottica con il nucleo drogato con Al_2O_3 ed Er_2O_3 ", Atti Fotonica '89, S.ta Margherita, (I)
- G. Cocito, **L. Cognolato**, E. Modone, R. De Franceschi, "Concentration profile on binary silica glass through molecular electronic polarizability", Proc. ECO2 "Glasses for Optoelectronics", Paris (1989); Proc. SPIE, Vol. 1128, 1989, p. 276-280
- L. Cognolato**, B. Sordo, E. Modone, A. Gnazzo, G. Cocito, "Aluminum/Erbium active fiber manufacture by a non-aqueous solution doping method", O/E fibres, Boston, 1989, Proc SPIE, Vol. 1171, 1990, p. 202-208
- L. Cognolato**, B. Sordo, E. Modone, A. Gnazzo, G. Cocito, "Fabrication of an active optical fibre by a non-aqueous solution doping method and its characterisation", Journ. Material Science Lett., vol. 9 (1990), pp. 1395-96
- E. Modone, A. Gnazzo, **L. Cognolato**; "Design and realization by MCVD of optical fibres with zero-dispersion wavelength around 1550 nm"; European Transactions on Telecommunications and Related Technologies; Vol. 1, no.5; 1990; p. 579-582
- L. Cognolato**, C. De Bernardi, M. Ferraris, A. Gnazzo, S. Morasca, D. Scarano, "Spectroscopic properties of Er^{3+} -doped glasses for the realization of active waveguides by ion-exchange technique" Proc. ECO4 "Glasses for Optoelectronics" L'Aja (NL), 1991, Proc. SPIE, Vol. 1513; 1991; p. 368-377
- L. Cognolato**, A. Gnazzo, "Active glass materials and optical fibres for telecommunication laser sources and amplifiers", Optical Materials, 2 (1993) p. 1-9

C. Bruschi, **L. Cognolato**, A. Gnazzo, B. Sordo, "Erbium-doped silica fibres for optical amplifiers", Journ. of Opt. Comm., V. 15 (1994), pp 150-154

L. Cognolato, A. Gnazzo, B. Sordo, C. Bruschi, "Tunable erbium-doped fiber ring laser source: design and realisation", Journ. of Opt. Comm., Vol. 16, no. 4, 1995, p. 122-125

L. Cognolato, "Chemical Vapour Deposition for optical fibre technology", Proc. "EuroCVD 10", Jesolo (I), 1995, also in Journ. de Physique IV, Colloque C5, Vol. 5, (1995), pp. C5.975-987

G. Cocito, **L. Cognolato**, V. Colombo, C. Panciatichi, A. Zazo, "AES temperature diagnostics in an inductively coupled plasma torch for the deposition of high-purity fused silica for optical waveguides", Proc. of 49th Annual Gaseous Electronic Conference, Argonne, USA, Oct. 1996

V. Colombo, C. Panciatichi, A. Zazo, G. Cocito, **L. Cognolato**, "Modeling, project, numerical simulation and AES temperature diagnostics of an inductively coupled plasma torch for the deposition of high-purity fused silica for optical waveguide production", IEEE Transactions on plasma science, V. 25, (1997), pp. 1073-1080

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Anna Maria Matteo, Luigi Tallone, Carlo Boidi, **Livio Cognolato**, Fabio Pozzi, "Modeling of waveguide UV-Induced Bragg Gratings with arbitrary apodization function: tools for designing high-performance related devices", Optical & Quantum Electronics, 32, (981-990), 2000

Charlotte de Beaumont, Oriana Rossotto, Cristina Di Davide, **Livio Cognolato**, "Two-component model for photo-induced refractive index change in hydrogen-loaded phosphosilicate glass", Journal of Non-Crystalline Solids, Volume 322, Issues 1-3, 15 July 2003, Pages 262-265

N. Daldosso, D. Navarro-Urrios, M. Melchiorri, L. Pavesi, F. Goubilleau, M. Carrada, R. Rizk, C. García, P. Pellegrino, B. Garrido, and **L. Cognolato** "Pump-probe experiments on Er coupled Si-nanocrystals rib-loaded waveguides", Appl. Phys. Lett. **86**, 261103 (2005)

L. Cognolato, "Use of ink jet for non conventional printing applications", Chemistry today, Feb. 2008,

M. Bertschi, S. Dasen, A. De Sousa, **L. Cognolato**, A. Fragoso, D. Latta and V. Neuman, "SmartHEALTH: preliminary results of an electrochemical measurement using a microfluidic-based cancer diagnostic instrument", Medical Physics and Biomedical Engineering, 2009.

A. Tirella, F. Vozzi, C. De Maria, G. Vozzi, T. Sandri, D. Sassano, **L. Cognolato**, A. Ahluwalia, "Substrate stiffness influences high resolution printing of living cells with an ink-jet system", Journal of Bioscience and Bioengineering VOL. 112 No. 1, 79–85, 2011

Menegatti E, Berardi D, Messina M, Ferrante I, Giachino O, Spagnolo B, Restagno G, **Cognolato L.**, Roccatello D., "Lab-on-a-chip: Emerging analytical platforms for immune-mediated diseases", Autoimmun Rev. Volume 12, Issue 8, June 2013, Pages 814–820

Co-author of Volume "Fiber Optic Communications Handbook", edited by Federico Tosco, TAB ed., 1990