

**Curriculum Vitae
Stefano Selleri**

**Full Professor
Department of Engineering and Architecture
University of Parma, Italy**

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Personal data

Name: Stefano Selleri
Date of birth: 22/02/1966
Location of birth: Bologna, Italy
Family status: Married,
Three children (1992, 1996, 1998)



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Professional summary

Activity field: Electromagnetic Fields,
"Settore Scientifico-Disciplinare ING-INF/02
Campi Elettromagnetici - SSD ING-INF/02"
"Settore Concorsuale 09/F1 Campi Elettromagnetici"

Researcher identifiers: ResearcherID: K-1343-2013
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Scopus Author ID: 7005530955

Prof. Stefano Selleri is Full Professor in "Electromagnetics Fields" and has been teaching several university courses ranging from basic electromagnetics to advanced topics in antennas, microwaves, electromagnetic compatibility, optics, photonics and lighting. His scientific activity is mainly focused on the study, design and characterization of standard or speciality optical fibers and fiber based components for telecommunication, industrial and sensing applications. He has been working with different ICT companies for microwave antenna development and for optical amplifier design and experimental characterization. He is cofounder of a university spin-off company providing RF and microwave services, measurements and technical consultancy for wireless operators, public institutions and private customers. He is also cofounder of a start-up company which develops smart biological and chemical sensor devices integrated with mobile platforms. He is the leader of the Group of Applied ElectroMagnetics – GAEM at Parma University. He has been serving the University Administration being member of the Academic Board of Directors. He was in the role of Department Director and member of the Academic Senate.

Education

- ✓ Scientific High School degree, A.B. Sabin of Bologna, in 1985.
- ✓ Graduated *Magna cum Laude* in Electronics Engineering, University of Bologna, in 1991.
- ✓ PhD degree in Information Technology at the Information Engineering Department, University of Parma in 1995.

Professional development

- ✓ Since 16 May 1997 **University Researcher** at the Information Engineering Department of the University of Parma.
- ✓ Since 2002 **Associate Professor** in Electromagnetic Fields (*Settore Scientifico Disciplinare - SSD ING-INF/02 Campi Elettromagnetici*) at the Faculty of Engineering of the University of Parma. Leader of the Group of Applied ElectroMagnetics – GAEM (<http://gaem.tlc.unipr.it>).
- ✓ December 2007, **co-founder member** of the academic spin-off Net Integra Consulting.
- ✓ Awarded with the **National Scientific Qualification (*Abilitazione Scientifica Nazionale*)** as Full Professor in Electromagnetic Fields (*Settore Scientifico Disciplinare - SSD ING-INF/02 Campi Elettromagnetici*), call 2012, validity since 17/01/2014 to 17/01/2020.
- ✓ Since October 2013 **Full Professor** in Electromagnetic Fields (*Settore Scientifico Disciplinare - SSD ING-INF/02 Campi Elettromagnetici*) at the Department of Information Engineering of the University of Parma.
- ✓ From December 2013 to December 2016 **Director of the Department** of Information Engineering of the University of Parma.
- ✓ From December 2013 to December 2016 prof. Stefano Selleri has been **member of the Academic Senate (*Senato Accademico*)** of Parma University.
- ✓ June 2014, **co-founder member** of the new start-up company DNAPhone.
- ✓ Since January 2017 elected **member of the Board of Directors (*Consiglio di Amministrazione*)** of Parma University.

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Affiliations and appointments

- ✓ Prof. Stefano Selleri is the leader of the Group of Applied ElectroMagnetics – GAEM (<http://gaem.tlc.unipr.it>) at Parma University. GAEM comprises, beside Prof. Selleri himself, two associate professors, research assistants and PhD students, varying according to the employment conditions and fundings. GAEM runs laboratories and a clean room used for educational activity of students and for researches related to the analysis and characterization of optical and photonic devices as well as sensors and biosensors.

- ✓ IEEE Photonics Society (former LEOS) member and IEEE Senior Member since 2008. Membership n. 80617686.
- ✓ Member of the IEEE Photonics Society Italy Chapter Executive Committee since December 2006.
- ✓ May 2012 – December 2016, Chair of the IEEE Photonics Society Italy Chapter. Prof. Stefano Selleri led the Italian Chapter of the IEEE Photonics Society for almost five years. During his chair he strongly boosted the Chapter activities by organizing and supporting seminars, conferences, expositions, PhD schools, PhD awards, workshops and other events (<http://www.ieee-photonics.it>).

In particular, during his Chair the Chapter has been worldwide awarded as the:

- IEEE Most Innovate Chapter in 2013,
 - IEEE Region 8 Chapter Of The Year (COTY 2014) in 2013
 - IEEE Photonics Society Chapter Of The Year 2014 (COTY 2014) in 2014
 - IEEE Photonics Society Largest Membership Increase Award in 2016
- ✓ Officer of “Commission D – Electronics and Photonics” of the International Union of Radio Science (Union Radio Scientifique Internationale - URSI), for the period 2011-2018 and deputy officer of the same Commission for the period 2019-2022. In these roles, prof. Stefano Selleri has been involved in session organization of the URSI General Assembly and Scientific Symposium 2014 (GASS 2014) and in the successful Rome candidature submission for the GASS 2020 and its organization.
 - ✓ Individual Member of the International Union of Radio Science (Union Radio Scientifique Internationale - URSI) since 15 May 2017, Individual Member n. M1720704491.
 - ✓ Member of the Società Italiana di Elettromagnetismo - SIEm. In particular, member of the Scientific Board of SIEm. As SIEm member, he served as Conference Chair for the XXI RiNEm - Riunione Nazionale di Elettromagnetismo, September 12-14, 2016 Parma, Italy.
 - ✓ Member of the Staff Board of the Photonics and Electro-Optics Group “Consiglio Direttivo del Gruppo tematico Fotonica ed Elettro-Ottica – FEO” of AICT/AEIT, Italy, 2012-2017.
 - ✓ Member of the National Inter-University Consortium for Telecommunications (Consorzio Nazionale Inter-Universitario – CNIT), Research Unit of Parma.
 - ✓ Associate member of “Istituto dei Materiali per l’Elettronica e il Magnetismo” IMEM – CNR, Parma, for research activity on "Innovative optical sensors", 2018-2020.
 - ✓ Associate member of “Istituto di Scienze Applicate e Sistemi Intelligenti E. Caianiello” ISASI – CNR, Pozzuoli.
 - ✓ Member of the Staff Board of AEIT-CORIFI – “Coordinamento Ricerca Innovazione Fotonica Italia”, being the leader of the Working Group 7 “Research Education and Training”, appointed again in 2015.

- ✓ Member of the Scientific Board, as delegate of Parma University, of the Research Center “Interazioni tra i Campi Elettromagnetici e Biosistemi” – ICEMB (Interactions between Electromagnetic Fields and Bio-systems) since 2014.
- ✓ Member of SITEIA.PARMA an inter-department Center of Parma University co-funded by the Emilia-Romagna local Government in the frame of the regional industrial research and technological transfer program (Programma Regionale per la Ricerca Industriale, l’Innovazione e il Trasferimento Tecnologico - PRRIITT). SITEIA.PARMA is part of the regional High Technology Network.
- ✓ Member of CIDEA an inter-department Center of Parma University co-funded by the Emilia-Romagna local Government in the frame of the regional industrial research and technological transfer program (Programma Regionale per la Ricerca Industriale, l’Innovazione e il Trasferimento Tecnologico - PRRIITT). CIDEA is part of the regional High Technology Network.
- ✓ Member of Future Technology Lab an inter-department Center of Parma University co-funded by the Emilia-Romagna local Government in the frame of the regional industrial research and technological transfer program (Programma Regionale per la Ricerca Industriale, l’Innovazione e il Trasferimento Tecnologico - PRRIITT). Future Technology Lab is part of the regional High Technology Network.

Institutional duties

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- ✓ Prof. Stefano Selleri has been member of the Italian Language Commission for foreign students enrolled in engineering courses at Parma University, since 1997 to 2003.
- ✓ Prof. Stefano Selleri has been involved, with different roles, in the Italian Engineering Profession Qualifying Examination (Esame di Stato di Abilitazione all’Esercizio della Professione di Ingegnere) for the years 1998,1999 and 2014.
- ✓ Prof. Stefano Selleri has been member, 2004-2018, of the PhD Board “Collegio dei Docenti di Dottorato” of the PhD course in Information Technologies, University of Parma, and he is now member of the PhD Board of the course in Automotive Engineering for Intelligent Mobility, University of Bologna, in collaboration with University of Modena Reggio Emilia and University of Parma.
- ✓ Prof. Stefano Selleri has been member of Scientific Committee of Area 109, 2013-2018.
- ✓ From December 2013 to December 2016 Prof. Stefano Selleri has been Director of the Department of Information Engineering of the University of Parma. The department had more than 40 employees (professors and researchers), more than one hundred non-permanent researchers (PhD students, post-PhD, grant-holders, research assistants), more than ten technical and administrative employees.
- ✓ From December 2013 to December 2016 Prof. Stefano Selleri has been member, as Department Director, of the Academic Senate (*Senato Accademico*) of Parma University.

- ✓ Since January 2017 Prof. Stefano Selleri is member of the Board of Directors (*Consiglio di Amministrazione*) of Parma University.
- ✓ Prof. Stefano Selleri has been involved in the management of the curriculum student requests for the years 2006 and 2007.
- ✓ Prof. Stefano Selleri has been member delegate of Parma University, 2014-2018, attending the shareholder's meeting of Lepida s.p.a., a company promoted by the local government of Emilia-Romagna Land devoted to the development of hard and software communication services of all public institutions in Emilia-Romagna.
- ✓ Member of the Board of MUNER, the Motorvehicle University of Emilia-Romagna, a collaboration of the University of Bologna, University of Modena and Reggio Emilia, University of Parma, University of Ferrara and the companies Automobili Lamborghini, Dallara, Ducati, Ferrari, HaasF1Team, HPE COXA, Magneti Marelli, Maserati, Pagani, Scuderia Toro Rosso.
<https://motorvehicleuniversity.com>
- ✓ Member of the National Commission for the National Scientific Qualification (*Abilitazione Scientifica Nazionale - ASN*) for the recruitment sector 09/F1 Electromagnetic Fields (*Campi Elettromagnetici*), October 2018 – October 2020.

Recruitment boards

Prof. Stefano Selleri has been member of many recruitment selection boards in Italian Universities, for the Scientific Sector of “Electromagnetic Fields” (Campi Elettromagnetici), and for the “National Research Council” (Consiglio Nazionale delle Ricerche – CNR) and external referee for national institutions and foreign Universities, for the positions reported in the list below.

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- ✓ Associate Professor at University of Modena and Reggio Emilia 2014
- ✓ Associate Professor at University of Parma 2014
- ✓ Associate Professor at Politecnico di Bari 2015
- ✓ Third Level Researcher at ISASI-CNR Pozzuoli 2015
- ✓ Associate Professor at University of Padua 2015
- ✓ Fifteen positions at national level for Research Director of CNR 2015
(the Commission resigned after a work of few months)
- ✓ Associate Professor at University of Parma 2016
- ✓ Associate Professor at University of Padua 2016
- ✓ Researcher type A at Politecnico di Milano 2017
- ✓ First Level Responsible of Research, CNIT 2017
- ✓ Associate Professor at University of Udine 2017
- ✓ Associate Professor at University of Padua 2017
- ✓ Professor at Institute of Photonic Technology / Friedrich-Schiller-University, Jena 2012
- ✓ Researcher at Denmark Technical University - DTU Copenhagen 2017
- ✓ Full professor at Politecnico of Bari 2018
- ✓ Full professor at University of Brescia 2018
- ✓ Two positions as First Research at CNR 2018
- ✓ Selection of Director candidate for Applied Physics Institute NELLO CARRARA (IFAC) 2018
- ✓ Full professor at University of Cassino 2019

- ✓ Researcher type A at University of Modena e Reggio Emilia 2020

Prof. Stefano Selleri has been member of many evaluation boards for the selection of Research Activity Scholarship at Parma University for the Scientific Sector of “Electromagnetic Fields” (*Campi Elettromagnetici*) in 2002, 2005, two in 2013, three in 2014, 2016, 2018, two in 2019.

Teaching activities

Since 2001 Prof. Stefano Selleri has been in charge for many university courses related to Electromagnetism as listed below. In the following CFU stands for “Credito Formativo Universitario”, a credit equivalent to the European Credit Transfer and Accumulation System (ECTS) credit.

He also contributed with seminars and exercises and he authored some textbooks for students in electromagnetics and photonics. He has been also in charge for the mark recording of the course *Etica e Pratica Professionale dell'Ingegnere* (Ethics and Professional Activity of the Engineer) (1 CFU) for the Laurea Triennale in Informatics, Electronics and Telecommunications Engineering, for the Academic Years 2013-2014 and 2014-2015.

Student evaluations of his course teaching performances always results in high marks.

All courses of the last years held at Parma University are listed on the official Parma University site at the following web page: <https://personale.unipr.it/it/ugovdocenti/person/21593>

Courses at Parma University

- ✓ *Elettromagnetismo Applicato* (Applied Electromagnetics) (9 CFU) for the Laurea Triennale in Informatics, Electronics and Telecommunications Engineering, since 2011-2012 Academic Year.
- ✓ *Automotive Lighting Technology* (3 CFU, 1st Module) course in English for the Laurea Magistrale in Advanced Automotive Electronic Engineering, University of Bologna, in collaboration with University of Modena Reggio Emilia, University of Ferrara, University of Parma, since 2017-2018 Academic Year.
- ✓ *Campi Elettromagnetici* (Electromagnetic Fields) (2 CFU) for the Laurea Triennale in “Tecnico della prevenzione negli ambienti e nei luoghi di lavoro”, at the Medicine and Surgery Department, University of Parma, since 2017-2018 Academic Year.
- ✓ *Fabbricazione Digitale* (Digital Fabrication) (3 CFU, 1st Module) for the Laurea Triennale in Information Systems Engineering, since 2019-2020 Academic Year.
- ✓ *Electromagnetic Compatibility* (3 CFU, 1st Module) course in English for the Laurea Magistrale in Electric Vehicle Engineering, University of Bologna, in collaboration with University of Modena Reggio Emilia, University of Ferrara, University of Parma, since 2020-2021 Academic Year.
- ✓ *Antennas for Wireless Systems* (6 CFU) course in English for the Laurea Magistrale in Communications Engineering, 2014-2015 – 2016-2017 Academic Years.
- ✓ *Microwaves* (6 CFU) course in English for the Laurea Magistrale in “Communications Engineering”, 2012-2013 and 2013-2014 Academic Years.

- ✓ *Microonde* (Microwaves) (6 CFU) for the Laurea Magistrale in “Ingegneria delle Telecomunicazioni”, 2009-2010 – 2011-2012 Academic Years.
- ✓ *Microonde* (Microwaves) (5 CFU) for the Laurea Specialistica in “Ingegneria delle Telecomunicazioni”, 2003-2004 – 2008-2009 Academic Years.
- ✓ *Propagazione Guidata* (Guided Propagation) (5 CFU) for the Laurea Triennale in “Ingegneria Elettronica e delle Telecomunicazioni”, 2003-2004 – 2010-2011 Academic Years.
- ✓ *Antenne A* (Antennas A) (5 CFU) for the Laurea Triennale in “Ingegneria Elettronica e delle Telecomunicazioni”, 2010-2011 Academic Year.
- ✓ *Componenti Fotonici B* (Photonics Components B) (5 CFU) for the Laurea Specialistica in “Ingegneria delle Telecomunicazioni”, 2003-2004 – 2009-2010 Academic Years.
- ✓ *Campi Elettromagnetici* (Electromagnetic Fields) (3 CFU) for the Laurea Triennale in “Tecnico della prevenzione negli ambienti e nei luoghi di lavoro”, at the Medicine and Surgery Faculty, 2003-2004 – 2009-2010 Academic Years.
- ✓ *Componenti e Circuiti Ottici* (Optical Components and Circuits), for the five years Laurea in “Ingegneria Elettronica e delle Telecomunicazioni”, 2001-2002, 2002-2003 and 2003-2004 Academic Years.
- ✓ *Campi Elettromagnetici* (Electromagnetic Fields), for the five years Laurea in “Ingegneria Elettronica, Informatica e delle Telecomunicazioni”, 2002/2003 Academic Year.
- ✓ *Antenne A* (Antennas A), for the Laurea Triennale in “Ingegneria Elettronica e delle Telecomunicazioni”, from 26 April to 4 June 2004, for substitute teaching of maternity leave.

Previous courses at Modena and Reggio Emilia University

- ✓ *Campi Elettromagnetici* (Electromagnetic Fields) (9 CFU) for the Laurea in “Ingegneria Elettronica” of the University of Modena and Reggio Emilia”, 2012-2013 and 2013-2014 Academic Years.
- ✓ *Compatibilità Elettromagnetica* (Electromagnetic Compatibility), for the Laurea in “Ingegneria delle Telecomunicazioni” of the “Facoltà di Ingegneria” of University of Modena and Reggio Emilia”, 2005-2006 Academic Year.

Course for PhD students at Parma University

- ✓ Stefano Selleri, Annamaria Cucinotta, Federica Poli, *Sensori in Fibra Ottica* (Optical Fiber Sensors) (10 hours), for the PhD degree in “Tecnologie dell’Informazione”, Parma University, February 2008.

PhD supervisor

Prof. Stefano Selleri has been advisor of many students of MS and PhD curricula. He has been member, 2004-2018, of the PhD Board “Collegio dei Docenti di Dottorato” of the PhD course in Information Technologies, University of Parma, and he is now member of the PhD Board of the course in Automotive Engineering for Intelligent Mobility, University of Bologna, in collaboration with University of Modena Reggio Emilia and University of Parma.

The following list reports name, thesis title and degree year of PhD students he tutored.

- ✓ Matteo Fuochi, “Microstructured Fibers for Optical Devices and High-Power Delivery” (2005)
- ✓ Altaf H. Bouk, “Electromagnetic Propagation in Photonic Crystal Optical Fibers and Waveguides” (2005)
- ✓ Federica Poli, “Photonic Crystal Fibers: Design, Applications and Perspectives” (2006)
- ✓ Lorenzo Rosa, “Radio-Over-Fiber System Technologies” (2007)
- ✓ Matteo Foroni, “Fantasies using optical fibers” (2008)
- ✓ Davide Passaro, “The Bright Future of Optical Fiber Beyond Telecommunications” (2009)
- ✓ Michele Sozzi, “Optical Fibers for Sensing Applications” (2011)
- ✓ Enrico Coscelli, “Design of innovative photonic crystal fibers for high power lasers” (2012)
- ✓ Alessandro Candiani, “Optical fiber sensors for physical and biological measurements” (2012)
- ✓ Masruri, “Flexible low loss THz and ultra-high power IR waveguiding using PCFs” (2015)
- ✓ Carlo Molardi “Photonic Crystal Fibers Design for 2 μm Wavelength Operation” (2016)

Prof. Stefano Selleri has been member of many commissions or external examiner for PhD degree in Italy

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- ✓ Politecnico di Bari 2011,
- ✓ Università di Bologna 2012,
- ✓ Politecnico di Milano 2014,
- ✓ Università di Modena e Reggio Emilia 2015,
- ✓ Università di Trento 2015,
- ✓ University of Parma, “Material Science and Technology” PhD course, 2017

and abroad

- ✓ University of Nottingham 2006,
- ✓ University of Adelaide 2011,
- ✓ Denmark Technical University - DTU Copenhagen 2016,
- ✓ University of Southampton 2020.

Scientific activity

The research activity of Prof. Stefano Selleri is mainly focused on the study of electromagnetic propagation in fiber-based optical devices. In particular, the behaviour of optical lasers and amplifiers has been investigated, starting from standard operation in the telecommunications bands then moving to sensing, biomedical and industrial application fields. Researches are performed through theoretical investigations and experimental activities always in the frame of international collaborations and national and international projects.

Numerical analysis of optical propagation

The theoretical approach, other than on analytical methods, was mainly based on the development of numerical methods, first of all the *Finite Element Method* (FEM). This has been developed thoroughly for years, leading to the implementation of extremely reliable and efficient codes. Formulations for modal analysis, mono- and bi-dimensional as well as scalar and full-vector, were developed. The electromagnetic propagation analysis, started with the development of the *Beam Propagation Method* with scalar mono-dimensional codes, has been subsequently generalized to obtain bi-dimensional cross-section full-vector codes. Moreover, formulations of propagators for *Finite-Element Time-Domain* and *Finite-Element Frequency-Domain* analysis were also implemented.

Optical amplifiers

For what pertains the study of optical amplifiers, efficient codes were developed employing the so-called *spectral* and *spatial* amplifiers formulations which implement the *propagation* and *population rate equations*, also integrated with finite elements modal solvers, when an accurate knowledge of the pump and signal field distribution is required. Recent developments integrate modal and propagation analysis with amplification and thermal effects in high power fiber lasers. This theoretical study and simulation activity has always been joined to an intense laboratory activity aiming to characterize the doped fibers and to experimentally verify the performance of the optical amplifiers subject of the study.

Photonic Crystal Fibers

The scientific activity has been strongly focused for years on the study of photonic-crystal optical fibers, microstructured and holey fibers. The research activity is performed in partnership with several European research centres and in the frame of different projects. The study has concerned with the dispersion, amplification and nonlinear properties, in terms of their possible applications, in particular for power fiber laser development. In the frame of the ALPINE project, Selleri's research group has been designing double cladding fibers for the fabrication of lasers used in photovoltaic industrial processing. His group is currently studying mode competition and transverse mode instability in medium and high power fiber lasers.

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Radio Frequency and Microwaves

Prof. Stefano Selleri has been also involved in the study of Radio over Fiber technologies, in particular to investigate the impact of intermodulation distortion, to extend the radio cellular coverage, particularly suitable for a multi-operator and multi-band scenario. He also studied solutions for multiple operators and low environmental impact base-stations for cellular phone networks. He is co-founder member of an academic spin-off, Net Integra Consulting, devoted to provide RF services, measurements and technical consultancy for wireless operators and customers.

Optical sensing

During his activity Prof. Stefano Selleri has been involved in research activities regarding optical sensing based on both standard and photonic crystal fibers. Two themes were thoroughly studied: the usage of photonic crystal fibers as sensing element for biological applications, especially for the hybridization of DNA chains and the usage of optical fiber based systems to monitor and control physical parameters like fluid level or temperature in tunnel and civil infrastructures. He is co-founder member of the new start-up company DNAPhone which develops food sensors exploiting photonics technologies and mobile platforms.

Publications

The outcomes of all the activities result in many international publications authored by Prof. Stefano Selleri on the different subjects and can be view at <http://gaem.tlc.unipr.it>

In particular, he is author of more than three hundred papers published on established international journals or presented to international conferences. He also authored more than one hundred national journal or conference papers, as well as monographs and textbooks at university level for students in electromagnetics and photonics.

International collaborations

Prof. Stefano Selleri has demonstrated a great dynamism to settle relationships with other research centres and universities and to inspire young students and researchers. For instance, his group had or has collaborations with:

- ✓ DTU the Technical University of Denmark that hosted an Italian student working toward his MS thesis and for research activity. Prof. Jesper Leasgard will be hosted as Visiting Professor for the second term of the academic year 2017-2018;
- ✓ the University of Southampton that hosted the PhD student Matteo Fuochi;
- ✓ the University of Laval in Canada that hosted a couple of Italian students working toward their MS thesis, the PhD student Marco Sisto and that sent a student to Italy for the Bachelor thesis, being S. Selleri his tutor;
- ✓ INO, the National Institut d'Optique in Quebec for research activity;
- ✓ the Brno University of Technology which settled two bilateral agreements with the Parma university for student and research exchanges; Parma University hosted Prof. Jiri Petraceck from Brno University as Visiting Professor for the second term of the academic year 2016-2017;
- ✓ the Hokkaido University in Japan that hosted the post PhD student Lorenzo Rosa;
- ✓ the COMSATS Institute of Information Technology, Pakistan that signed a Memorandum of Understanding with Parma University;
- ✓ the University of Balochistan in Pakistan which sent a student for his PhD course into Selleri's group;
- ✓ the Tsinghua University in Beijing China for research activity;
- ✓ the University of Navarra in Spain that hosted two PhD students and sent to Parma two PhD students for visits of some month;
- ✓ the Institute of Electronic Structure and Laser (IESL) of the Foundation for Research and Technology – FORTH in Greece that hosted two PhD students for two-year activity. Moreover, Stavros Pissadakis will be hosted as Visiting Professor for the second term of the academic year 2017-2018;
- ✓ the Institute for Photonics and Advanced Sensing (IPAS) and The ARC Centre for Nanoscale Biophotonics, The University of Adelaide, Australia, that hosted one PhD student for one year for research activity;
- ✓ Xlim Research Institute, France, for research activity;
- ✓ the Singapore Institute of Manufacturing Technology, Singapore, that hosted and financially supported the PhD student Carlo Molardi.
- ✓ The Institute of Laser for Postgraduate Studies, University of Baghdad, that sent four PhD students (Riyadh Mwad Naife, Hussein Thamer Salloom, Reem Mohammed Ibrahim Al

Zubaidi and Sarah Kadhim Mohsin) for four to six months' research activity between 2012 and 2016.

- ✓ The Nazarbayev University, Kazakhstan, that sent Dr. Asma Perveen in Parma as Visiting Researcher for laser application activity for more than one month in 2017.

These contacts always represent an important opportunity for students, young researchers and PhD students to be inserted in outstanding groups at national and international levels working towards high quality objectives.

Different student exchanges have been also carried on as Short Term Scientific Missions, a specific tool of the Cost Actions Prof. Stefano Selleri was involved in.

He himself exploited the Short Term Scientific Mission within the COST Action P11 scientific programme on "Physics of linear, non-linear and active photonic crystals", from 19 to 23 July 2004 at Brno University of Technology.

Prof. Stefano Selleri ability in motivating and inspire young researchers is also confirmed by about one hundred and fifty men-months through different projects, being he the scientific supervisor, supported by the Regional Government of Emilia-Romagna and the Spinner Consortium, from 2003 to 2013.

Research projects

Over the years, Prof. Stefano Selleri has been involved in several projects which proved his serious and fruitful ability to establish new interdisciplinary activities and organize and manage research groups. The main projects are listed in the following.

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- ✓ Researcher in the **CoACh** project "Cold management in Agro-food Chains: solutions for process digitalization", project funded by Regione Emilia Romagna in the frame of the "POR-FESR EMILIA ROMAGNA 2014-2020, Asse 1 - Ricerca e innovazione, Azione 1.2.2" programme 2018.
- ✓ **Scientific supervisor** for the Parma research unit within the project "**Materiali, dispositivi e processi innovativi per la fabbrica 4.0**" funded by the Emilia Romagna Government, in the frame of the POR FSE 2014/2020.
- ✓ **Coordinator** of the project: "Short-pulse high-speed fiber laser cutting of multi-layer polymeric materials" 2012-2013, supported by EU FP7 **Nexpresso** Project. The project supported the purchase of an about € 20.000 solid state laser.
- ✓ **Project Coordinator** of the FP7 Collaborative IP project **ALPINE** - Advanced Lasers for Photovoltaic INdustrial processing Enhancement, 2009-2012, supported by EU FP7 Programme. Project budget € 9.119.574,00, EU contribution € 5.899.987,00, contribution to Parma research group € 721.080,00.
- ✓ **COST** (European Cooperation in Science and Technology) **Action MP702**: "Towards functional sub-wavelength photonic structures", supported by EU, 2007-2012.

- ✓ **COST** (European Cooperation in Science and Technology) **Action 299**: "Optical Fibres for New Challenges Facing the Information Society", supported by EU, 2005-2010.
- ✓ **Coordinator** of the project "Development of new all-fiber lasers, for telecom, sensors and industrial applications", **Italy-Spain Integrated Actions**, supported by MIUR, 2009-2010.
- ✓ **Coordinator** of the project "PULsed fiber laser for MAterial processing - PUMA", Scientific and Technological Cooperation Program between **Italy and Franch Community of Belgium**, supported by Ministry of Foreign Affairs, 2009-2010.
- ✓ "Progettazione REti di Telecomunicazione per la Minimizzazione dell'Impatto Ambientale – **PREMIA**", with the "Edil Scavi srl" company supported by Regional Government of Sicily, Italy, 2007.
- ✓ **Coordinator** of the project "Design of passive devices based on microstructured fibers for optical communication systems", Scientific and Technological Cooperation Program between **Italy and Pakistan**, supported by MAE – Ministry of Foreign Affair, 2006-2007.
- ✓ **TECAL** Laboratory Project, supported by Regional Government of Emilia-Romagna, Italy, 2006-2007.
- ✓ **COST** (European Cooperation in Science and Technology) **Action P11**: "Physics of linear, nonlinear and active photonic crystals", supported by EU, 2003-2007.
- ✓ Annual projects supported by the Italian Ministry of University and Research, among them: Studio di fibre a cristallo fotonico per amplificazione ottica e compensazione della dispersione (2004), Amplificazione parametrica in fibre ottiche a cristallo fotonico (2005), Amplificazione in banda S tramite fibre ottiche depresse drogate con erbio (2006), Sorgenti ottiche per sistemi Radio over Fiber (2007).
- ✓ "INtegrazione e SErvizi per la BAnda Larga – **INSEBALA**", supported by the Regional Government of Emilia-Romagna, Italy, 2005-2006.
- ✓ **Coordinator** of the project "Modelling of novel photonic components for telecommunications", Scientific and Technological Cooperation Program between **Italy and Czech Republic**, supported by Ministry of Foreign Affair, 2002-2004.
- ✓ **Coordinator** of the project "Full vectorial mode solver for the analysis of waveguide devices", Scientific and Technological Cooperation Program between **Italy and Czech Republic**, supported by MAE – Ministry of Foreign Affair, 1999-2000.
- ✓ "Large Optical Bandwidth by amplifier Systems based on TELLurite fibers doped with Rare earths – **LOBSTER**", 2000-2003, supported by IST – EU Program.
- ✓ "Fluoroaluminate Amplifiers for Second Telecom window – **FAST**", 1995-1997, supported by ACTS – EU Program.

- ✓ Coordinator of more the fifteen Technological Transfer Projects funded by the SPINNER Consortium in the period 2003-2012, corresponding to more than **150 men-month** activity.

Contracts

Prof. Stefano Selleri has been involved in several projects and contracts with private industries and public institutions as scientific responsible. The following list reports the anonymous company name, year of the contract, amount of the contract and title of the activity.

- ✓ XXX 2004 €10.000, "Sviluppo di antenne AM/FM e TV per autoveicoli".
- ✓ XXX 2006 €10.000, "Sviluppo di antenne a vetro su berlina tipo 1 e su berlina di tipo 2".
- ✓ XXX 2006 €8.000, "Sviluppo di antenne a vetro su vettura coupé".
- ✓ XXX €55.000, "Studio e progettazione dell'ottica e dell'elettronica di controllo per un laser a semiconduttore".
- ✓ XXX 2007 €22.000, "Sviluppo di stadi amplificatori per laser di potenza".
- ✓ XXX 2007 €150.000, "Sviluppo di un sistema di monitoraggio di temperatura e di CO2 in galleria".
- ✓ XXX 2008 €12.000, "Consulenza nella realizzazione del piano di monitoraggio e di risanamento di campi elettromagnetici a radiofrequenza".
- ✓ XXX 2007 €500, "Misure a banda larga di emissioni di campo elettromagnetico in ambiente urbano".
- ✓ XXX 2008 €25.000, "Sviluppo di stadi amplificatori di potenza per laser in fibra".
- ✓ XXX 2009 €500, "Esecuzione di misure di campo elettromagnetico a banda larga ad alta frequenza in ambiente outdoor".
- ✓ XXX 2013 US\$ 4.000, "Biosensori basati su fibre a cristallo fotonico".
- ✓ XXX 2013 US\$ 4.000, "Optical fiber sensors and laser".
- ✓ XXX 2014 €50.000, "Modelling of large mode area fibers".
- ✓ XXX 2017 €8.000, "Caratterizzazione e progettazione di antenne".

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As leader of his group GAEM he also promoted and was involved in the following contract activities:

- ✓ XXX 2012 €3.000, "Studio, sviluppo e simulazione di bocca carta illuminata da luce Led diffusa".
- ✓ XXX 2013 €35.000, "Sviluppo di laser di potenza in fibra drogata con tulio".
- ✓ XXX 2014 €6500, "Analisi simulative e misure con termocamera relative al confronto tra l'utilizzo di un telefono smartphone in assenza e in presenza di dispositivo distanziatore".
- ✓ XXX 2014 €16.000, "Sviluppo di un bundle di fibre ottiche per l'illuminazione di un proiettore".
- ✓ XXX 2014 €15.000, "Studio di fattibilità e realizzazione di laser scribing con laser a picosecondo su substrati ceramici funzionalizzati con film sottili a base di a-Si".
- ✓ XXX 2015 €14.000, "Sviluppo di sistemi diagnostici per analisi chimiche e biologiche".
- ✓ XXX 2015 €22.000, "Studio di fattibilità e realizzazione di laser scribing con laser a picosecondo su substrati ceramici funzionalizzati con film sottili a base di a-Si - Integrazione per attività aggiuntive".
- ✓ XXX 2015 €100.000, "Test di taglio laser e analisi ottica e morfologica su film sottili".
- ✓ XXX 2016 €16.000, "Sviluppo di sistemi diagnostici per analisi chimiche e biologiche".
- ✓ XXX 2016 €30.000, "Sviluppo di sistemi diagnostici per analisi chimiche e biologiche".

Spin-off and start-up

Spin-off: Net Integra Consulting

In December 2007, Prof. Stefano Selleri, as one of the co-founder members, established a new academic spin-off called **Net Integra Consulting** devoted to provide RF and microwave services, measurements and technical consultancy for wireless operators and customers.

This new enterprise has been involved since its very beginning with Public Institution and Authorities for monitoring the electromagnetic level in urban centres and manage antenna site planning with private providers and with several telecommunication service companies for a huge variety of services and activities. Up to date, the company has two employers, besides the original company promoters. <http://www.netintegra.it>

Start-up: DNAPhone

In June 2014, Prof. Stefano Selleri established a new company, **DNAPhone**, together with five co-founder members. DNAPhone is a clear example of a “4.0 industry” company thanks to its integration of smart services and technologies. The company develops sensor devices for the measurements of biological, chemical parameters by means of a photonic technologies integrated with mobile platforms and cloud storage services.

The company produce two different devices, the first one designed for educational activity, while the second is developed for business customs working in the vine sector. Up to date, the company has five employers, besides the original company promoters. <http://www.dnaphone.it>.

In the frame of this activity Prof. Stefano Selleri has been involved in the following **patent submission**: “Optoelectronic device for use in the colorimetric analysis of sample fluid, apparatus and method for colorimetric analysis of sample fluid”, European patent submission n. 16202482.2 – 1554, 27-1-2017.

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SENSIFO

Prof. Stefano Selleri was the coordinator of the spin-off proposal “SENSIFO - Sensori in fibra ottica”, funded by the SPINNER consortium in 2004-2005. The activity carried on by the spin-off proposers did not give rise to a company as planned.

Civil lawsuits

Prof. Stefano Selleri has been involved in three civil lawsuits in 2002, 2013 and 2017 as technical advisor (“Consulente Tecnico”) or external technical advisor issued by the Civilian Court of Parma. Due to grounds for confidentiality details are not provided.

Organization of national and international conferences

- ✓ Member of the **Organizing Committee** of the Italian Conference on Optics and Photonics – ICOP2020, Parma, Italy, 9-11 June, 2020.
- ✓ Member of the International Advisory Committee of BioPhotonics 2019, 4th International Conference on Biophotonics, National Taiwan University, Taipei, Taiwan, September 15-18, 2019.

- ✓ Member of the Subcommittee on Optics and Photonics and **organizer** of the Focus Session on Optical Fibers for High Power Applications at “Photonics & Electromagnetics Research Symposium” PIERS 2019, 17-20 June 2019, Rome.
- ✓ Member Organizing Committee of the European Conference on Optical Communication - ECOC 2018, to be held in Roma on September 23-27, 2018.
- ✓ Member of the Technical Program Committee of RTSI 2017 – 3° International Forum on Research and Technologies for Society and Industry, Modena, Italy, 11-13 September 2017.
- ✓ Member of the Executive Committee of the Conference Fotonica 2016, Padova, Italy, 3-5 May 2017.
- ✓ Member of the Organizing Committee of the conference “3rd PARMA NANO-DAY”, Parma, 12-14 July 2017.
- ✓ Member of the Scientific Committee of the international PhD School “Photonic integration: advanced materials, new technologies and applications”, Erice, Sicily, Italy, 25 September - 1 October 2016.
- ✓ **Chair** of the Ventunesima Riunione Nazionale di Elettromagnetismo, RiNEm 2016, Parma, 12-14 September 2016.
- ✓ Member of the Organizing Committee of the the 18th International Conference on Transparent Optical Networks ICTON 2016, Trento, Italy, 10-14 July 2016.
- ✓ Member of the Executive Committee of the Conference Fotonica 2016, Roma, Italy, 6-8 June 2016.
- ✓ Member of the organizing Committee of the Conference GS 2015, Parma, Italy, 15- 17 June 2015.
- ✓ **Chair** of the IEEE International Workshop BioPhotonics 2015, Florence, 20-22 May 2015.
- ✓ Member of the Executive Committee of the Conference Fotonica 2015, Turin, Italy, 6-8 May 2015.
- ✓ Member of the Executive Committee of the Conference Fotonica 2014, Naples, Italy, 12-14 May 2014.
- ✓ Member of the Program Committee of the Mediterranean Photonics Conference, Trani, Italy, 7-9 May 2014.
- ✓ **Co-Chair** of the International Workshop on “Spatio-Temporal Complexity in Optical Fibers”, Como, Italy, 16-18 September 2013.
- ✓ Member of the Executive Committee of “Workshop Gruppo Biosensori Ottici e Biofotonica”, Sestri Levante, Italy, 19-20 September 2013.
- ✓ Member of the International Advisory Committee of IEEE International Workshop BioPhotonics 2013, Taipei, Taiwan, 17-19 July 2013.
- ✓ Member of the Executive Committee of the Conference Fotonica 2013, Milano, Italia, 14-16 May 2013.
- ✓ Member of the Technical Subcommittee on Optical Sensing and Metrology Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and International Quantum Electronics Conference (IQEC), Munich, Germany, 12-16 May 2013.
- ✓ Member of the Executive Committee of the Conference Fotonica 2012, Firenze, Italy, 15-17 May 2012.
- ✓ Member of the Executive Committee of “Convegno Nazionale Sensori - Innovazione, attualità e prospettive”, Roma, Italy, 15-17 February 2012.
- ✓ **Chair** of the IEEE International Workshop BioPhotonics 2011, Parma, 8-10 June 2011.
- ✓ Member of the Technical Subcommittee on Optical Sensing and Metrology Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and European Quantum Electronics Conference (EQEC), Munich, Germany, 2011.

- ✓ Member of the Technical Subcommittee on Optical Sensing and Metrology Conference on Lasers and Electro-Optics Europe (CLEO/Europe) and European Quantum Electronics Conference (EQEC), Munich, Germany June 14-19, 2009.
- ✓ Member of the Technical Program Committee of the Subcommittee on “Modelling, Numerical Simulation, and Theory” IPNRA 2008 - Integrated Photonics and Nanophotonics Research and Applications, organized by the Optical Society of America – OSA, Boston, USA, July 13-16, 2008.
- ✓ **Chair** of the Winter Topical on “Photonic crystal Fibers: Technology and Applications”, Winter Topicals 2008 – Nonlinear Photonics organized by IEEE-LEOS, Sorrento, Italy, January 14-16, 2008.
- ✓ **Chair** of the Subcommittee on “Modelling, Numerical Simulation, and Theory” IPNRA 2007 - Integrated Photonics and Nanophotonics Research and Applications, co-located with Slow Light, Topical Meetings organized by the Optical Society of America – OSA, Salt Lake City, Utah, USA, July 8-11, 2007.
- ✓ Member of the International Program Committee of the IASTED International Conference “Antennas, Radar, and Wave Propagation (ARP 2007)”, Montreal, Quebec, Canada - May 30 – June 1, 2007 and Special Session Organizer of the "Radio over Fiber Technologies and Applications" Special Session in ARP 2007.
- ✓ Member of the Technical Program Committee of the Subcommittee on “Modelling, Numerical Simulation, and Theory” IPRA 2006 - Integrated Photonics Research and Applications, co-located with Nanophotonics, Topical Meetings, Optical Society of America – OSA, Uncasville, Connecticut, USA, April 24-28, 2006.
- ✓ Member of the Technical Program Committee of the “Conference on Lasers and Electro-Optics/Europe” - CLEO/EUROPE 2005, Munich, Germany, 12-17 June 2005.

Reviewer activity

Prof. Stefano Selleri has been serving for years as reviewer for the most important scientific journals and conferences of the field, among them IEEE-LEOS Journal of Lightwave Technology, IEEE Photonics Technology Letters, IEEE Journal of Selected Topics in Quantum Electronics, IEEE Sensors Journal, IEEE Journal of Quantum Electronics, Optics Express (Optical Society of America - OSA), Optics Letters (OSA), Journal of Optical Society of America B (OSA), Laser Physics Letters (OSA), Photonics Journal (OSA), Optics Communications (Elsevier), Optical and Quantum Electronics, Sensors & Actuators: B. Chemical (Elsevier), Optical Fiber Technology (Elsevier), Journal of Optics, Journal of Modern Optics, Chinese Optics Letters, Sensors (MDPI), Biosensors (MDPI), Materials (MDPI).

He also served as independent reviewer for projects funded by the Italian Ministry (MIUR) and for national and international institutions:

- ✓ Australian Solar Institute,
- ✓ RNID London,
- ✓ NATEC Denmark,
- ✓ Swiss National Science Foundation,
- ✓ Australian Research Council,
- ✓ French National Research Agency,
- ✓ University of Roma Tor Vergata.

- ✓ Italian national agency for the university system and research evaluation (Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca – ANVUR) as reviewer of publications of the period 2011-2014.

Guest editor

- ✓ Prof. Stefano Selleri has been Guest Editor of the International Journal of Modern Physics B, Condensed Matter Physics; Statistical Physics; Atomic, Molecular and Optical Physics, Volume 28, Issue 12, 10 May 2014, doi.org/10.1142/S0217979214020020. The title of the special issue is: "High-Brightness Fiber and Fiber-Coupled Sources".
- ✓ Prof. Stefano Selleri has been Guest Editor with Dr. Tarun Kumar Gangopadhyay of the CSIR, "Central Glass & Ceramic Research Institute", India, of the Special Issue "Optical Sensors Using Microstructured and Photonics Crystal Fibers", [https://www.mdpi.com/journal/sensors/special issues/Microstructured and Photonics Crystal Fibers](https://www.mdpi.com/journal/sensors/special%20issues/Microstructured%20and%20Photonics%20Crystal%20Fibers)

IEEE JQE associate editor

Prof Stefano Selleri is Associate editor of **IEEE Journal of Quantum Electronics**. The IEEE Journal of Quantum Electronics is dedicated to the publication of manuscripts reporting novel experimental or theoretical results. Published bi-monthly by the IEEE Photonics Society, in both web-based and print form, the journal comprises original contributions describing significant advances in the understanding of quantum electronics phenomena or the demonstration of new devices, systems, or applications.

<https://www.photonicsociety.org/publications/journal-of-quantum-electronics/editorial-board>

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Sensors editorial board member

Prof Stefano Selleri is member of the Editorial Board of **Sensors (MDPI)**. Sensors provides an advanced forum for the science and technology of sensors and biosensors. It publishes reviews (including comprehensive reviews on the complete sensors products), regular research papers and short notes. Its aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible.

<http://www.mdpi.com/journal/sensors/sectioneditors/physicalsensors>

Lectures and seminars

- ✓ Stefano Selleri, "Photonic crystal fibers, properties and applications", IEEE Photonics Society Italy Chapter seminar, 27 March 2017, INFN, "Laboratori Nazionali del Sud", Catania, Italy.
- ✓ Stefano Selleri, "Laser", two lessons for the European Master Degree in Oral Laser Applications – EMDOLA, organized by University of Parma, in 2012 and 2017, 12-10-2012 and 17-2-2017.

- ✓ Stefano Selleri, “Design and modelling of photonics crystal fibers”, 1 July 2014, University of Bern, Switzerland.
- ✓ Stefano Selleri, “Fiber based platform for biosensing”, IEEE Photonics Society Italy Chapter seminar, 18 November 2013, Naples, Italy.
- ✓ Stefano Selleri, “Fiber lasers: status and applications”, IEEE Photonics Society Italy Chapter seminar, 30 May 2013, Modena, Italy.
- ✓ Stefano Selleri, “Fiber based platform for biosensing”, IEEE Photonics Society Italy Chapter seminar, 13 February 2013, Pavia, Italy.
- ✓ Stefano Selleri, “Fiber optics platform for biomedical detection”, IEEE Photonics Society Italy Chapter Workshop, Brescia, Italy, 29-30 May, 2012.
- ✓ Stefano Selleri, “Fibre fotoniche per la bio-sensoristica”, panelist of the round-table on: “Fotonica per la Vita - Photonics for Life”, Salone dei 500, Palazzo Vecchio, Florence, 15 May 2012.
- ✓ Stefano Selleri, “Photonic crystal fiber numerical design for fiber lasers used in photovoltaics scribing”, 5th Annual Meeting Photonic Devices, Zuse-Institut Berlin (ZIB), Berlin, 23-24 February 2012.
- ✓ Stefano Selleri, “Optical fiber platform for the detection of biological components”, workshop on Nanophotonics for sensing & nonlinear optics: Next generation photonic materials, structures & devices, Serafino, Institute for Photonics & Advanced Sensing (IPAS), McLaren Vale, South Australia, 24-26 August 2011.
- ✓ Stefano Selleri, “Biosensor optical fiber platform for the detection of relevant components in biological fluids”, 14th International Erlangen Graduate School in Advanced Optical Technologies (SAOT) Workshop on “Fiber Lasers, Sensors and Materials”, Reichenschwand, Nurnberg, Germany, 27-29 July 2011.
- ✓ Stefano Selleri, A. Cucinotta, F. Poli, D. Passaro, E. Coscelli, “Advanced Fiber Lasers for Photovoltaic thin film Module Scribing”, 8 October 2010, Centro di Eccellenza per l'Ingegneria dell'Informazione, della Comunicazione e della Percezione (CEIICP), Pisa, Italy.
- ✓ Annamaria Cucinotta, Stefano Selleri, “Le Lavorazioni Laser per il Fotovoltaico”, ExpoLaser 2008, Piacenza, 14 November 2008.
- ✓ Stefano Selleri, “Hollow Core Photonic Crystal Fibers”, Brno University of Technology, Czech Republic, April 16-20, 2007, Teaching Staff Mobility, Socrates/Erasmus Project.
- ✓ Stefano Selleri, “Optical Fiber Amplifiers for WDM systems”, Brno University of Technology, Czech Republic, April 16-20, 2007, Teaching Staff Mobility, Socrates/Erasmus Project.
- ✓ Stefano Selleri, “Optical Fiber Amplifiers for WDM systems”, Nottingham University, United Kingdom, November 24, 2006.
- ✓ Stefano Selleri, “Optical Amplifiers for WDM Systems”, Brno University of Technology, Czech Republic, March 31, 2003, Teaching Staff Mobility, Socrates/Erasmus Project.
- ✓ Stefano Selleri, “Photonic Crystal Fibers”, Brno University of Technology, Czech Republic, April 1, 2003, Teaching Staff Mobility, Socrates/Erasmus Project.

Invited speeches

- ✓ L. Rosa, S. Mckee, L. Vincetti, F. Poli, S. Selleri, A. Cucinotta, "Thermo-optic effects in multicore fibers for high power lasers," SPIE Photonics Europe 2020, Fiber Lasers and Glass Photonics: Materials through Applications II conference, March 29 - April 2, 2020, Strasbourg, France.

- ✓ S. Selleri, "Boosting accessibility of diagnostics tools for 3D printing, consumer electronics, digital imaging and open source software conversion", Optical Metrology, 24-27 June 2019, Munich, Germany.
- ✓ A. Cucinotta, F. Pasquali, M. Barozzi, A. Tonelli, A. Candiani, L. Vicetti, S. Selleri "Smartphone-based Approach for Colorimetric Dipstick Analysis", "Photonics & Electromagnetics Research Symposium", PIERS 2019, 17-20 June 2019, Rome.
- ✓ S. Selleri, S.H. Pallangal, L. Vincetti, L. Rosa, F. Poli, A. Cucinotta, "Modal guidance and phase shift in thermally loaded multi-core fibers," TE1-I2, International Conference on Fiber Optics and Photonics - PHOTONICS 2018, December 12-15, 2018, New Delhi, India.
- ✓ L. Vincetti, C. Molardi, F. Giovanardi, F. Poli, S. Selleri, A. Cucinotta, "Photonic Crystal Fibers for Label-free DNA Detection", Photonics@SG, 31 July – 4 August 2017, Singapore.
- ✓ S. Selleri, "Low cost and smart diagnostic platforms for chemical analysis", GS 2015, 15-17 June 2015, Parma, Italy.
- ✓ A. Candiani, S. Giannetti, A. Bertucci, A. Manicardi, R. Corradini, M. Konstantaki, S. Pissadakis, A. Cucinotta, S. Selleri, "Biophotonics photonic crystal fibers platform for nanoparticle-enhanced DNA," The Second Biophotonics Conference, July 17-19, 2013, National Taiwan University, Taipei, Taiwan.
- ✓ A. Candiani, S. Giannetti, Hussein T. Salloom, M. Sozzi, A. Hadi Al-Janabi, A. Cucinotta, S. Selleri, "Nanoparticle enhanced fiber platform for biosensing applications," EOS Topical Meetings, 12-14 September 2013, Capri, Italy.
- ✓ A. Candiani, S. Giannetti, A. Cucinotta, A. Bertucci, A. Manicardi, M. Konstantaki, W. Margulis, S. Pissadakis, R. Corradini, S. Selleri, "DNA biosensors implemented on PNA-functionalized microstructured optical fibers Bragg gratings," proc. SPIE Optics and Optoelectronics 2013, April 15-18, 2013, Prague, Czech Republic, paper 8775-1.
- ✓ S. Selleri, A. Bosio, A. Cucinotta, M. Sozzi, D. Menossi, Y. Hernandez, A. Bertrand, C. Duterte, "Optimization of pulsed fiber laser scribing for CdTe and CIGS solar cells," ICTON 2012, Coventry, United Kingdom, July 2-5, 2012.
- ✓ S. Selleri, "Microstructured and standard optical fibers for the detection of relevant components in biological fluids", Micro- and nano-photonic materials and devices, Trento, Italy, 16-18 January 2012.
- ✓ Y. Hernandez; A. Bertrand; S. Selleri; F. Salin; L. Leick; M. Hueske; R. Petkovsek; F. Ferrario; N. Lichtenstein, "Recent Progress on the ALPINE (Advanced Lasers for Photovoltaic INDUSTRIAL processing Enhancement) FP7 Integrated Project", Fiber Laser Applications - FILAS 2011, FThB1, Istanbul, Turkey, February 16-17 2011.
- ✓ S. Selleri, "Recent status and prospects of EU-funded ALPINE project," SPIE Photonics West 2011, San Francisco (CA), United States, paper 7921-26, January 22-27, 2011.
- ✓ S. Selleri "Microstructured optical fibers exploitation: from photovoltaics to biosensing," IEEE Photonics Society Winter Topical Meetings 2011, Keystone (CO), United States, January 10-12, 2011.
- ✓ S. Selleri, A. Cucinotta, F. Poli, "Active photonic crystal fiber amplifiers and lasers", The 9th International Conference on Optical Communications and Networks (ICOON2010), Nanjing, China, 24-27 October 2010.
- ✓ F. Poli, E. Coscelli, D. Passaro, A. Cucinotta, S. Selleri, "Accoppiamento tra modi guidati e di cladding in fibre a cristallo fotonico polarizzanti", FOTONICA 2010, P2.23, Pisa, May 25-27, 2010.
- ✓ S. Selleri, A. Cucinotta, F. Poli, D. Passaro, "Yb-doped Rod-type Photonic Crystal Fibers for High Brilliance Lasers", ICO Photonics Conference on Emerging Trends & Novel Metamaterials in Photonics, pp. 63, Delphi, Greece, October 7-9, 2009.

- ✓ S. Selleri, A. Cucinotta, F. Poli, D. Passaro, "High brilliance fiber lasers for the scribing of photovoltaic modules", 11th International Conference on Transparent Optical Networks - ICTON 2009, Mo.B1.5, Island of São Miguel, Azores, Portugal, June 28 - July 2, 2009.
- ✓ S. Selleri, A. Cucinotta, F. Poli, D. Passaro, "Fibre a cristallo fotonico: applicazioni e prospettive", FOTONICA 2009, C3.1, Pisa, May 27-29, 2009.
- ✓ Federica Poli, Annamaria Cucinotta, Matteo Foroni, Stefano Selleri, "Finite-Element Based Photonic Crystal Fiber Analysis: From Solid to Hollow Core Fibers", IEEE Winter Topicals 2008, Nonlinear Photonics, Hilton Sorrento Palace, January 14-16, 2008.
- ✓ Federica Poli, Annamaria Cucinotta, Stefano Selleri, "Microstructured fibers: modelling, design and applications", Integrated Photonics and Nanophotonics Research and Applications, IPNRA 2008, Boston, July 13-16, 2008.
- ✓ Federica Poli, Annamaria Cucinotta, Davide Passaro, Stefano Selleri, "Doped fiber lasers: from telecom to industrial applications", International Conference on Transparent Optical Networks, ICTON 2008, Athens, July 13-16, 2008.

Books and book chapters

Prof. Stefano Selleri authored monographs and textbooks at university level for students as well as research books in electromagnetics and photonics.

- ✓ Stefano Selleri, Luca Vincetti, Annamaria Cucinotta, "**Optical and Photonics Components**", Esculapio, ISBN-10: 8874889240 ISBN-13 978-8874889242, 2015.
- ✓ "**Optofluidics, Sensors and Actuators in Microstructured Optical Fibers**", Edited by Stavros Pissadakis and Stefano Selleri, Elsevier - Woodhead Publishing, 2015.
- ✓ Stefano Selleri, Luca Vincetti, Annamaria Cucinotta, "**Componenti Ottici e Fotonici**", Esculapio, ISBN 9788874885527, 2012.
- ✓ Federica Poli, Annamaria Cucinotta and Stefano Selleri, "**Photonic Crystal Fiber, Properties and Applications**", Springer, ISBN 978-1-4020-6325-1, 2007.
- ✓ Stefano Selleri is editor and translator of Fawwaz T. Ulaby, "**Fondamenti di Campi Elettromagnetici, Teoria ed Applicazioni**", edited by McGraw-Hill, Milan 2006, the Italian Edition of Fawwaz T. Ulaby, "Fundamentals of Applied Electromagnetics", Prentice Hall, Upper Saddle River, NJ 2004.
- ✓ Stefano Selleri, "**Propagazione Elettromagnetica Guidata**", MUP, 2005, Parma, ISBN 88-7847-000-7.
- ✓ Stefano Selleri, Altaf Hussain Bouk, "**Propagazione Guidata**", MUP, 2004, Parma, ISBN 88-7847-095-3.
- ✓ Stefano Selleri, "**Esercizi di Campi Elettromagnetici**", Edizioni Santa Croce, 1997, Abbiategrasso (MI).

Book chapter

- ✓ Roberto Corradini, Stefano Selleri, **“Photonic Crystal Fibers for Physical, Chemical and Biological Sensing”**, Chapter 11 in **“Photonic Bandgap Structures: A Novel Technological Platform for Physical, Chemical and Biological Sensing”**, e-book, Marco Pisco, Andrea Cusano and Antonello Cutolo editors, pp. 189-202, Bentham Science Publishers, 2012.
- ✓ Stefano Selleri, Carlo Fornaini, Annamaria Cucinotta, **“Laser Physics, Laser-Tissues Interactions and Laser Safety”**, Chapter 1 in **“Oral Laserology”**, Carlo Fornaini and Jean-Paul Rocca editors, pp. 1-19, EDlearning, 2015.

Publications

Prof. Stefano Selleri is author of more than four hundred papers published on international journals or presented to international conferences. He is also author of more than one hundred national journal or conference papers. The H-index and the number of citations are as follows:

	H-index	Citations
Web of Science	26	2092
Scopus	28	2665
Google Scholar	32	3687

International Journal Papers

1. L. Rosa, S.H. Pallangal, F. Poli, S. Selleri, and A. Cucinotta, "Mode phase variation and sensitivity to thermal load in three-core optical fibers," J. Lightwave Technology, Early Access (2020).
2. Ruben Foresti, Stefano Rossi, Silvana Pinelli, Rossella Alinovi, Matteo Barozzi, Corrado Sciancalepore, Maricla Galetti, Cristina Caffarra, Paola Lagonegro, Guido Scavia, Monica Mattarozzi, Maria Careri, Claudio Macaluso, Michele Miragoli, Stefano Selleri, "Highly-defined bioprinting of long-term vascularized scaffolds with Bio-Trap: complex geometry functionalization and process parameters with Computer Aided Tissue Engineering," Materialia, vol. 9, March 2020, 100560 (2020).
3. Ruben Foresti, Stefano Rossi, Silvana Pinelli, Rossella Alinovi, Corrado Sciancalepore, Nicola Delmonte, Stefano Selleri, Cristina Caffarra, Edoardo Raposio, Guido Macaluso, Claudio Macaluso, Antonio Freyrie, Michele Miragoli & Paolo Perini, "In-vivo vascular application via ultra-fast bioprinting for future 5D personalised nanomedicine," Scientific Reports 10, 3205 (2020).
4. F. Poli, J. Laegsgaard, A. Cucinotta, S. Selleri, "Thermal Effects on Modal Properties of Dual-Core Yb-Doped Fibers," Journal of Lightwave Technology 37(4), 1075-1083 (2019).
5. Jesper Laegsgaard, Federica Poli, Annamaria Cucinotta, Stefano Selleri, "Static and dynamic mode instabilities in dual-core fiber amplifiers," Journal of the Optical Society of America B 36(3), 757-767 (2019).
6. Alessandro Tonelli, Alessandro Candiani, Michele Sozzi, Andrea Zucchelli, Ruben Foresti, Chiara Dall'Âsta, Stefano Selleri, Annamaria Cucinotta, "The geek and the chemist: Antioxidant capacity measurements by DPPH assay in beverages using open source tools, consumer electronics and 3D printing," Sensors and Actuators B: Chemical 282, 559-566 (2019).

7. J. Laesgaard, F. Poli, A. Cucinotta, S. Selleri, "Theory of thermo-optic instabilities in dual-core fiber amplifiers," *Optics Letters* **43**(19), 4775-4778 (2018).
8. C. Fornaini, E. Merigo, F. Poli, J.-P. Rocca, S. Selleri, G. Lagori, A. Cucinotta, "Hard dental tissues laser welding: a new help for fractured teeth? A preliminary ex vivo study," *LASER THERAPY* **27**(2), 105-110 (2018)
9. C. Fornaini, F. Poli, E. Merigo, N. Brulat-Bouchard, A. El Gamal, J-P. Rocca, S. Selleri, A. Cucinotta, "Disilicate Dental Ceramic Surface Preparation by 1070 nm Fiber Laser: Thermal and Ultrastructural Analysis," *Bioengineering* **51**(1), 10 (2018).
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