

Curriculum Vitae

Stefano Selleri

Personal Data

Name: Prof. Stefano Selleri
Date of birth: 22/02/1966
Location of birth: Bologna, Italy
Family status: married

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Education

- Graduated *magna cum laude* in Electronics Engineering at the University of Bologna in 1991.
- PhD degree in Information Technology at the Information Engineering Department of the University of Parma in 1995.

Professional Development

- Research Assistant the Faculty of Engineering of the University of Parma since 1997.
- Since 2002 he has been Associate Professor in Electromagnetic Fields (SSD ING-INF/02) at the Faculty of Engineering of the University of Parma.
- Since October 2013 he has been Full Professor in Electromagnetic Fields (SSD ING-INF/02) at the Department of Information Engineering of the University of Parma.
- Since December 2013, Director of the Department of Information Engineering of the University of Parma.

Research overview

The research activity of Stefano Selleri is focused on the study of electromagnetic propagation in integrated and fiber optics devices and of optical laser and amplifiers, starting from the erbium-doped ones suitable for amplification in the telecommunications bands and subsequently also extended to sensing and biomedical and industrial applications. 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. For modal analysis, mono- and bi-dimensional as well as scalar and full-vector formulations 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. 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 on the study of photonic-crystal optical fibers, also called microstructured or 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 fiber lasers used in photovoltaic industrial processing.

Optical sensing

During his activity Stefano Selleri has been also 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 the 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.

Radio over Fiber

Stefano Selleri has been also involved in the study of Radio over Fiber technologies to extend the radio cellular coverage, particularly suitable for a multi-operator and multi-band scenario, and in the development of solutions for multiple operators and low environmental impact base stations for cellular phone networks.

Publications

The outcomes of all the activities described are shown by the many international publications authored by Stefano Selleri on the different subjects and can be view at <http://gaem.tlc.unipr.it>. In particular, he is author of more than two hundred and fifty papers published on established international journals and presented to the main international conferences in the field. He is also author of more than eighty national journal or conference papers, monographs and textbooks at university level for students in electromagnetics and photonics. He is reviewer for many scientific journals in the field, and has been member of the technical committees or chair of important international conferences in the field of optics and photonics.

Teaching

Stefano Selleri has been teaching several courses for years. In particular he now teaches:

- *Elettromagnetismo Applicato* (Applied Electromagnetics) course for the Laurea Triennale curricula in Electronics and Telecommunications Engineering,
- *Microonde* (Microwaves) course for the Laurea Magistrale curricula in Communications Engineering.

In the past years he held the following courses:

- *Componenti e Circuiti Ottici*, 2001/2002 - 2002/2003 (titolarità) and 2003/2004 (affidamento) for Laurea curricula in “Ingegneria Elettronica e delle Telecomunicazioni”,
- *Campi Elettromagnetici*, 2002/2003 (affidamento) for Laurea curricula in “Ingegneria Elettronica, Informatica e delle Telecomunicazioni”,
- *Propagazione Guidata*, 2003/2004 – 2009/2010 for Laurea Triennale curricula in “Ingegneria Elettronica e delle Telecomunicazioni”,
- *Microonde*, 2003/2004 – 2009/2010 for Laurea Specialistica curricula in “Ingegneria Elettronica e delle Telecomunicazioni”,
- *Componenti Fotonici B*, 2003/2004 – 2009/2010 for Laurea Specialistica curricula in “Ingegneria delle Telecomunicazioni”,
- *Campi Elettromagnetici*, 2003/2004 – 2009/2010 for Laurea Triennale curricula in “Tecnico della Prevenzione nell'Ambiente e nei Luoghi di Lavoro”, at the Medicine and Surgery Faculty.
- *Compatibilità Elettromagnetica*, 2005/2006 for Laurea curricula in “Ingegneria delle Telecomunicazioni” of “Facoltà di Ingegneria dell'Università di Modena e Reggio Emilia”,
- *Antenne A*, for Laurea Triennale curricula in “Ingegneria Elettronica e delle Telecomunicazioni”, from 26 April 2004, as maternity substitution.

Supervision experiences and international collaborations

PhD Tutor

Stefano Selleri has been Tutor of many students for the MS degree and Tutor of the following PhD students:

- M. Fuochi “Microstructured Fibers for Optical Devices and High-Power Delivery” (2005),
- A.H. Bouk “Electromagnetic Propagation in Photonic Crystal Optical Fibers and Waveguides” (2005),
- F. Poli “Photonic Crystal Fibers: Design, Applications and Perspectives” (2006),
- L. Rosa “Radio-Over-Fiber System Technologies” (2007),
- M. Foroni “Fantasies using optical fibers” (2008),
- D. 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 now attending the last year of their PhD course.

He has been member of many commissions for MS and PhD degree, in Italy and abroad.

International collaborations

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, besides routinely contacts with Italian universities, he had collaborations with:

- COM-DTU the Technical University of Denmark (that hosted an Italian student working toward his MS thesis and for research activity),
- the University of Southampton (that hosted the PhD student M. Fuochi),
- the University of Laval in Canada (that hosted a couple of Italian students working toward their MS thesis, the PhD student M. 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 agreement with the Parma university for student and research exchanges),
- the Hokkaido University in Japan (that hosted the post PhD student L. 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 in 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).

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.

Besides these examples, Stefano Selleri had constant contacts with all the partners of the European Projects he has been involved in, in particular the COST actions P11, 299 and MP702, and the ALPINE project he is currently coordinating. Within the ALPINE activities PhD students and young researchers have been hosted in Parma and sent for few day or week visits to NKT Photonics in Denmark, to Eolite System in France and to Multitel in Belgium. Different student exchanges have been also carried on as Short Term Scientific Missions, a specific tool of the Cost actions.

Stefano Selleri ability in motivating and inspire young researchers is also confirmed by more than 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 20013.

Projects

Over the years, 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.

- Coordinator of the project: "Short-pulse high-speed fiber laser cutting of multi-layer polymeric materials" 2012-2013, supported by EU FP7 **Nexpresso** Project.

- Coordinator of the FP7 Collaborative IP project **ALPINE** - Advanced Lasers for Photovoltaic INdustrial processing Enhancement, 2009-2012, supported by EU FP7 Programme.

- **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 MAE – Ministry of Foreign Affairs, 2009-2010.

- "Progettazione REti di Telecomunicazione per la Minimizzazione dell'Impatto Ambientale – **PREMIA**", 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 Affairs, 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 spin-off proposal "SENSIFO - Sensori in fibra ottica", funded by the SPINNER consortium, 2004-2005.

- Coordinator of the project "Modelling of novel photonic components for telecommunications", Scientific and Technological Cooperation Program between **Italy and Czech Republic**, supported by MAE – Ministry of Foreign Affairs, 2002-2004.

- Teaching Staff Mobility of the Bilateral Project Socrates/Erasmus between University of Parma and Technical University of Brno, Czech Republic, 2003.

- 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 Affairs, 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.
- Scientific coordinator of several projects with private industries and public institutions.

Spin-off: Net Integra Consulting

In December 2007, the University of Parma, Stefano Selleri, Annamaria Cucinotta, a young engineer and a company specialized in antenna design and production established a new academic spin-off called **Net Integra Consulting** devoted to provide RF 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.

Start-up: DNAPhone

In June 2014, he established a new company, DNAPhone, together with five co-founders. The company develops food and medical sensors based on mobile platforms.

Invited

- 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 (ICOCN2010), 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.

Lectures and seminars

- 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, 15 May 2012, Firenze.
- 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.

Monographs

- "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.
- 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, 2011, in press.
- Federica Poli, Annamaria Cucinotta and Stefano Selleri, "Photonic Crystal Fiber, Properties and Applications", Springer, ISBN 978-1-4020-6325-1, 2007.
- Stefano Selleri is also 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).

Organization of international conferences

- 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, 6-8May 2015.
- Member of the Executive Committee of the Conference Fotonica 2014, Naples, Italy, 121-14May 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 dell'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, 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.

Membership

- Chair of the IEEE Photonics Society Italy Chapter.
Prof. Stefano Selleri led the Italian Chapter to be awarded as the worldwide IEEE Most Innovate Chapter in 2013, as the IEEE Region 8 Chapter Of The Year (COTY 2014) in 2013 and IEEE Photonics Society Chapter Of The Year 2014 (COTY 2014) in 2014



- Senior Member of IEEE.
- Officer of “Commission D – Electronics and Photonics” of the International Union of Radio Science (Union Radio Scientifique Internationale - URSI).
- Member of the IEEE Photonics Society Italy Chapter Executive Committee (former LEOS) from December 2006.
- Member of the Società Italiana di Elettromagnetismo (SIEm).
- Member of CNIT – Consorzio Nazionale Inter-Universitario.

Reviewer

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, Optics Express (OSA), Optics Letters (OSA), Journal of Optical Society of America B (JOSA B), Optics Communications, Optical and Quantum Electronics, Optical Fiber Technology, Journal of Optics, Journal of Modern Optics, Chinese Optics Letters. He also served as independent reviewer for national and international institutions.

Publications

Stefano Selleri is author of more than two hundred and fifty papers published on established international journals and presented to the main international conferences in the field. He is also author of more than ninety national journal or conference papers. His H-index is 25 and i10-index is 28 (Google Scholar).

International Journal Papers

1. L. Rosa, E. Coscelli, F. Poli, A. Cucinotta, and S. Selleri, "Thermal modeling of gain competition in Yb-doped large-mode-area photonic-crystal fiber amplifier", *Optics Express* (2015), in press.
2. C. Molardi, X. Yu, H. K. Liang, Y. Zhang, C. W. Qiu, A. Cucinotta, S. Selleri, "Analysis of mid-infrared lasing in active random media," *Optics Express* 23(9), 12286-12292 (2015).
3. E. Coscelli, F. Poli, J. Li, A. Cucinotta, S. Selleri, "Dispersion engineering of highly nonlinear chalcogenide suspended core fibers," *IEEE Photonics Journal* 7(3), 2200408 (2015) [<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=7083701>].
4. C. Molardi, X. Yu, H. K. Liang, Y. Zhang, A. Cucinotta, S. Selleri, "Modal analysis in 2D media with variable disorder," *Optics Express* 23(3), 3681-3689 (2015) [<http://dx.doi.org/10.1364/OE.23.003681>].
5. A. Bertucci, A. Manicardi, A. Candiani, S. Giannetti, A. Cucinotta, G. Spoto, M. Konstantaki, S. Pissadakis, S. Selleri, R. Corradini, "Detection of unamplified genomic DNA by a PNA-based microstructured optical fiber (MOF) Bragg-grating optofluidic system," *Biosensors and Bioelectronics* 63, 248-254 (2015).
6. F. Poli, E. Coscelli, A. Cucinotta, S. Selleri, F. Salin, "Single-mode propagation in Yb-doped large mode area fibers with reduced cladding symmetry," *IEEE Photonics Technology Letters* 26(21), 2454-2457 (2014) [<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=6901208>].
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