

Curriculum vitae et studiorum (updated to September 2016)

Personal Details

Sabrina Palanti, researcher
CNR IVALSA Biodegradation and
preservation Laboratory
Via Madonna del Piano 10 50019 -
Sesto Fiorentino Firenze Italy
Tel 00390555225512
Fax 00390555225507
e-mail palanti@ivalsa.cnr.it



Professional Qualifications

2012 National scientific qualification as associate in the sector Scienze e Tecnologie dei Sistemi Arborei e Forestali, 07/B2 as defined in D.D. 222,2012
2001-present: Researcher at CNR – IVALSA, Firenze
2002-present: Responsible of the Laboratory “Preservation and Biodegradation of Wood” at IVALSA
1998: Specialised in Science for the Conservation of Cultural Heritage (University of Florence).
1998-2001: Contract researcher in a Company (Geal srl)
1993-1997: PhD in Environmental Science (University of Florence)
1992: Master of Science in Pharmaceutical Chemistry and Technology (University of Florence)

Other significant scientific memberships

2011-present Italian Expert WG28 Performance classification CEN/TC 38
2011 - present: National Delegate COST ACTION FP 1006 *Bringing new functions to wood through surface modification*
2013-present National Delegate COST ACTION FP 1303 *Performance of biobased building materials*
2013 - present WG2 Leader of COST ACTION FP 1303 *Performance of biobased building materials*
2005 – 2015 present national coordinator UNI GL 2 “Wood Treatments”
2005-present: Italian Expert WG24 Insect Testing CEN/TC38.
2005-present: Italian Expert WG23 Fungal Testing CEN/TC38
2005-present: Italian Expert WG21 Durability Classification CEN/TC38
2003-2008: Italian delegate COST Action E 37 *Sustainability Through New Technologies For Enhanced Wood Durability*
2002 – present: member of IRG – WP International Research group of wood protection

Organizer of Conference

2008 Coordinator Workshop Made Expo 2008 *Il Legno e I prodotti derivati come materiale da costruzione: durabilità nell’ambito della normativa europea*, 08/02/2008.
2007: Local organizer of the COST E37 11th workshop “*Wood protection: control measures, test methods and service life prediction*” and 10th meeting of the management committee on 4th- 6th November 2007, CNR IVALSA Florence, Italy

Teaching and Lectures

2015 Lecture *Biological decay on historical and recent timber structure in Italy. Description based on some cases study*. Universitat Politècnica de Valencia, Spain 4th December 2015
2015 *Biological decay on timber structures, doors and windows of Nativity Church, Betlemme*. Universitat Politècnica de Valencia, Spain 4th December 2015

2015 Lecture *Macro decay agents of waterlogged archaeological wood (marine environment)* Training Course (Diagnostic, Conservation and Restoration of Cultural Heritage assets Shanghai Museum - CNR-ICVBC Agreement), 27th November 2015.

2015 Lecture *Macro Biology* Master Management of Underwater Cultural Heritage in situ Msc Maritime Archaeology Bournemouth University in CNR IVALSA, 26th May – 3rd June 2015

2015 Lecture *Cases studies on the Evaluation of Natural Durability, Wood Preservatives and Wood Resistance*, Master Management of Underwater Cultural Heritage in situ Msc Maritime Archaeology Bournemouth University in CNR IVALSA, 26th May – 3rd June 2015

2015 Lecture *Quadro legislativo europeo sulla durabilità naturale con particolare attenzioni agli attacchi dovuti ad insetti. prodotti ed interventi possibili, Workshop Insetti e legno nei beni culturali : diagnosi, prevenzione e controllo*, Venaria Reale, Torino, 20/03/2015

2015 Workshop *La durabilità nelle costruzioni in legno*, Fiera Legno&Elizia 19/02/2015 Verona

2014 Lecture *Cases studies*, Master Management of Underwater Cultural Heritage in situ Msc Maritime Archaeology Bournemouth University in CNR IVALSA, 19th - 23th May 2014

2014 Lecture *Macro Biology* Master Management of Underwater Cultural Heritage in situ Msc Maritime Archaeology Bournemouth University in CNR IVALSA, 9th - 23th May 2014

2012 21/06/2012 INCONTRO TECNICO FORMATIVO Lecture: *Direttiva Comunitaria Biocidi relativa ai pesticidi ad uso non agricolo (incluso preservanti per legno)*, Area della Ricerca di Firenze.

2012 9/11/12 Lecture *La durabilità naturale, il degradamento del legno e i trattamenti preservanti curativi*, Depto Composicion Arquitectonica ETS Arquitectura, Universidad Politecnica Valencia Master de Conservation Del Patrimonio Arquitectonico.

A. Y. 2010-2011, 2009-2010, 2008-2009, 2007-2008, 2006-2007. Master II level Casaclima Free University of Bozen, Italy, lesson topics: *Wood Decay and Protection*

2008-2009. Master II level University of Florence RESTAURO DEGLI EDIFICI STORICI E MONUMENTALI, PROGETTO CANTIERE SICUREZZA Topic: *Degradamento dei legni: funghi e insetti*.

2009 Lecture at Bournemouth University, Master Science in Maritime Archeology, Topics: 1. *Wood decay*, 2. *Marine borers*. 1st- 3rd December 2009.

2009 14/12/2009. Lecture *Alterazione dovuta agli agenti di degrado del legno*, Training Course “Il legno materia per un futuro sostenibile UM 09.02.4L.005” Associazione FORMA Azione s.r.l., Ponte San Giovanni Perugia.

Chair in conferences

1. Session Cost Action FP 1303 Performance of Bio-based Building Materials, Tallin Estonia 4th -5th March 2015.
2. Session First Conference Cost Action FP1303, Kraniska Gora, 23th-24th October 2014
3. Session 1st meeting COST Action FP1303, Paris 27th-28th January 2014

Principal research area

Evaluation of low environmental impact wood treatments trough *In field* and laboratory tests.

Developing of low environmental impact innovative wood preservatives.

Laboratory tests on the natural durability of wood species obtained from Italian and abroad plantations (eg. Eucaliptus spp., Paulownia, Chestnut, Larch, etc.) and other species (eg. **Prosopis** spp.).

X-ray microdensitometry as a tool to determine the durability of wood against wood decay fungi.
In situ evaluation of biotic decay in historical and civil buildings.

Services

Efficacy tests of wood preservatives against fungi and insects and tests for the determination of the natural durability of wood species in accordance with European standards:

Efficacy against basidiomycetes fungi with laboratory test (application by vacuum- pressure: EN 113, EN 15083, threshold value or conferred durability; application by surface treatments: CEN TS 839)

Efficacy against basidiomycetes fungi with in field test (EN 252, CEN TS 12037)

Efficacy against soft rot (CEN TS 807)

Efficacy against blue stain fungi (EN 152)

Efficacy against *Hylotrupes bajulus* (preventive action: EN 46-1 and EN 46-2; eradicator action: EN 1390)

Efficacy against *Lyctus brunneus* (EN 20-1 and EN 20-2)

In situ evaluation of biotic decay of historic and civil building

Efficacy against marine organisms (EN 275)

Efficacy test against termites.

Tutorship

2015 STSM Cost Action 1006 *Evaluation of fungal effectiveness of wood treated through a polyphenol enzymatic grafting*, Applicant M^a Carmen Fernández Costas, University of Vigo, period 3/02/15-12/02/15.

2014 Doctorate thesis Carmen Fernandèz *Biotechnological applications of Kraft lignins* (Doctoral programme in Chemical Engineering V12D017V06 of the University of Vigo, stage period: 15th September 2014- 15th December 2014.

2012 STSM Cost Action 1006 , entitled *Wood preservation properties of tannin-boron formulations against insects* Applicant: Gianluca Tondi, HTB - ACHHOCHSCHULE SALZBURG GmbH Salzburg University of Applied Sciences, period: 3rd -10th April 2012.

2012 Master Science *Analisi di una catena di elaborazione audio per la rilevazione di infestazione da insetti xilofagi* Laurea in Ingegneria dell'Informazione (classe 9) Indirizzo: automazione e impianti Università degli studi di Firenze facoltà di Ingegneria, AY 2011-2012 student Luca Bossi,

2011 Master Science *Trattamenti per il legno a base di gel di silice funzionalizzato. Valutazione dell'efficacia antifungina e delle proprietà consolidanti*. A.Y. 2010-2011 Laurea Specialistica in Scienze per i beni culturali, Università degli studi di Parma, student Francesco Scarpino.

2009 PhD *Aspect concerning conservation of some wood churches from Suceava district against harmful insects attack* Faculty of Biology, "A.L.I. Cuza" University, Romania. student: Loredana Axinte

2009 PhD *Science for conservation* Ciclo XXII, title: The effect of preservative interventions on the chemical-physical and structural characteristics of panel painting Mikiko Hayashi. Co-tutor for insect tests.

2007 Master Science *Trattamenti preservanti a basso impatto ambientale per legno da usare all'esterno: valutazione di alcune formulazioni a base di acido borico* A.Y. 2006-2007. Laurea di I livello in Scienze e Tecnologie Forestali e Ambientali, Università degli studi di Firenze, student: Stefano Poli,.

Research activities

Scientific responsible IVALSA for:

2014-present Agreement CNR IVALSA – ACCSYS TECHNOLOGIST- CNR ISMAR Determination Of Wood Acetylated Against Marine Borers On Three Italian Sites.

2012 Scientific agreement Università degli Studi di Modena e Reggio Emilia - Biogest-Siteia e CNR-IVALSA Nanosolwood.

2011-2016 European project 2011-2015 FP7 n. 284181 Trees4Future Designing Tree for Future.

2011 Scientific agreement CNR IVALSA- CNR ISMAR-FONDAZIONE MUSEI CIVICI VENEZIA Valutazione della durabilità naturale o conferita agli invertebrati xilofagi marini, da utilizzarsi per il restauro dei portoni d'acqua del Palazzo Ducale di Venezia .

2010 Project RiMiDiA “Riflettometria a Microonde per la Diagnostica di beni Artistici “POR FESR 2007 - 2013 ATTIVITA' 1.1 LINEA DI INTERVENTO "D" BANDO REGIONALE 2008 PER IL SOSTEGNO A PROGETTI DI RICERCA CONGIUNTI TRA GRUPPI DI IMPRESE E ORGANISMI DI RICERCA IN MATERIA DI SCIENZE SOCIO ECONOMICHE E UMANE.

2010 Project *Restoration of the Roof of the Church of Nativity Bethlehem* coordinated by Università di Ferrara (Windows and door durability).

2008 Project *Sofie 2 B6 “Trattamenti per la durabilità”* funded by Provincia Autonoma di Trento

2008 Scientific agreement CNR IVALSA – RETE FERROVIARIA ITALIANA “Prove in mare per la determinazione della durabilità naturale di specie legnose all’attacco da parte di organismi marini nello Stretto di Messina”.

2006 Scientific agreement CNR IVALSA – TLF srl – LEGNODOC srl “Prove in campo riguardante preservanti a base di acido borico e altri coformulanti in accordo alle norme UNI EN 252 ed UN CEN/TS 12037”.

2006 Project “Borato di proteine - preservante ecologico per legno in esterni” coordinated by TLF s.r.l.

2002 Scientific agreement CNR-IRL (ora IVALSA) - DOW AGROSCIENCES “Sperimentazione per il controllo ed il monitoraggio delle popolazioni di termiti sotterranee rilevate presso il monastero di Santa Caterina Sinai”

Partecipation to:

2004 Scientific agreement CNR-IVALSA – ARSIA REGIONE TOSCANA “Attività di collaudo della durabilità di pali in castagno per viticoltura rivestiti con guaina in PVC e con altre soluzioni tecnologiche a basso impatto ambientale”. In questo ambito ha curato la parte riguardante le prove di durabilità del legno condotte sia in campo che in laboratorio.

2002 Scientific agreement CNR-IRL (ora IVALSA) – ARSIA - MIGLIARINO “Ricerca per la valorizzazione del legname di Pino domestico proveniente dalle pinete dell’area del Parco Regionale Migliarino - San Rossore - Massaciuccoli nella realizzazione di manufatti per arredo urbano ed aree di gioco”. In questo ambito ha curato la parte riguardante le prove di durabilità del legno e le prove di efficacia di preservanti a basso impatto ambientale condotte sia in campo che in laboratorio.

2002 European project Diawood SMT4 CT98 2264 “Development of Innovative non Destructive Evaluation Techniques for Diagnosis of Ancient Wood”

Publications

Peer review

Scopus h-index: 7, Web of Science h-index:6

Google scholar: 8.

1. Bergamonti L., Berzolla A., Chiappini E., Feci E., Maistrello L., Palanti S., Predieri G., Vaccari G. Polyamidoamines (2016) (PAAs) functionalized with siloxanes as wood preservatives against fungi and insects *Holzforschung*. ISSN (Online) 1437-434X, ISSN (Print) 0018-3830, DOI: 10.1515/hf-2016-0010.
2. Palanti S., Feci E., Anichini M (2015). Comparison between four tropical wood species for their resistance to marine borers (*Teredo* spp and *Limnoria* spp) in the Strait of Messina. *International Biodeterioration and Biodegradation* DOI 10.1016/j.ibiod.2015.07.013 *in press*
3. Macchioni N, Mannucci M, Olmi R, Palanti S, Riminesi C (2015). First trial for a microwave reflectometric tool to survey decay in historic timber structures *International Journal of Architectural Heritage*, 9:1-5 2015 DOI: 10.1080/15583058.2015.107846 *in press*
4. Palanti S., Feci E., Anichini M (2015). Comparison between four tropical wood species for their resistance to marine borers (*Teredo* spp and *Limnoria* spp) in the Strait of Messina. *International Biodeterioration and Biodegradation* DOI 10.1016/j.ibiod.2015.07.013 *in press*
5. Macchioni N., Paoli R., Scarpino F. (2014). A Case Study: the Evaluation of Biological Decay of a Historical Hayloft in Rendena Valley, Trento, Italy., 86, 179-187 <http://dx.doi.org/10.1016/j.ibiod.2013.06.026>
6. Girardi, F., Cappelletto, E., Sandak, J.,Bochicchio, G.,Tessadri, B.,Palanti, S., Feci, E., Di Maggio, R. (2014) Hybrid organic-inorganic materials as coatings for protecting wood *Progress in Organic Chemistry*, 77, 2, 449-457.
7. Feci E., Mannucci M., Palanti S. (2013). Diagnostic evaluation of insect attack on existing timber structures: a review of some case studies. *Advanced Materials Research*, 778 pp 281-288, Trans Tech Publications, Switzerland. doi:10.4028/www.scientific.net/AMR.778.281
8. Macchioni N., Mannucci M., Olmi R., Palanti S., Riminesi C. (2013). Microwave reflectometric tool for non-destructive assessment of decay on timber structure. *Advanced Materials Research*, 778, pp 1020-1027 Trans Tech Publications, Switzerland. doi:10.4028/www.scientific.net/AMR.778-1020
9. Palanti S., Feci E. (2013). A wood preservative based on commercial silica nanodispersions and boric acid against fungal decay through laboratory and field tests. *Open journal of forestry*, 3, pp 57-61 DOI: 10.4236/ojf.2013.32009.
10. Palanti S. (2013). Evaluation of Durability Conferred by an Oleothermic Treatment on Chestnut and Douglas fir through Laboratory and in Field Tests. *Open journal of forestry*, 3, pp 66-69. DOI: 10.4236/ojf.2013.32011.
11. Temiz A., Kose G., Panov D., Terziev N., Hakkı Alma A. , Palanti S., Akbas S. (2013). Effect of Bio-oil and Epoxidized Linseed Oil on Physical, Mechanical and Biological Properties of Treated Wood." *Journal of Applied Polymer Science*, 130 (3) pp 1562-1569. DOI: 10.1002/APP.39334.
12. Macchioni N., Brunetti M., Pizzo B., Burato P., Nocetti M., Palanti S., (2012). The timber structures in the Church of the Nativity in Bethlehem: Typologies and diagnosis. *Journal of Cultural Heritage* 13 (4) pp e42-e53. Doi: 10.1016/j.culher.2012.10.004.
13. Palanti S., Pecoraro E., Scarpino F. (2012). Wooden doors and windows in the Church of the Nativity: Evaluation of biotic and abiotic decay and proposals of interventions. *Journal of Cultural Heritage* 13 (4) pp e82-e92. DOI: 10.1016/j.culher.2012.10.001.
14. Maggini S, Feci E, Cappelletto E, Girardi F, Palanti S, Di Maggio R. (2012). (I/O) Hybrid Alkoxysilane/Zirconium-Oxocluster Copolymers as Coatings for Wood Protection. *ACS APPLIED MATERIALS & INTERFACES*, vol. 4, p. 4871-4881, ISSN: 1944-8244, doi:10.1021/am301206t.

15. Palanti S, Feci E, Predieri G, Vignali F. (2012). Copper complexes grafted to amino-functionalized silica gel as wood preservatives against fungal decay: mini-blocks and standard test.. *Bioresources*, vol. 7, p. 5611-5621, ISSN: 1930-2126
16. Tondi G., Palanti S., Wieland S., Thevenon M. F., Petutschnigg A., Schnabel T.,(2012). Durability of tannin-boron treated timber, *Bioresources* 7(4), 5138-5151
17. Palanti S, Feci E, Predieri G, Vignali F (2012). A wood treatment based on siloxanes and boric acid against fungal decay and coleopter *Hylotrupes bajulus*. *International Biodeterioration and Biodegradation*, vol. 75, p. 49-54, ISSN: 0964-8305, doi:http://dx.doi.org/10.1016/j.ibiod.2012.07.019
18. Predieri G, Vignali F, Baratto MC, Basosi R, , Müller K, Callone E, Palanti S , Feci E, Interpenetration of wood with NH₂R-functionalized silica xerogels anchoring copper(II) for preservation purposes, *Journal of Sol-Gel Science and Technology* 2011, 60 (3) 445-456 DOI: 10.1007/s10971-011-2557-x
19. Palanti S, Feci E, Torniai AM, Comparison based on field tests of three low environmental impact wood treatments. *International Biodeterioration & Biodegradation* 2011 65 (3) 547-552 DOI 10.1016/j.ibiod.2010.12.012 DOI: 10.1007/s00226-010-0396-5
20. Axinte L, Cuzman O, Feci E, Palanti S, Tiano P, Cinnamaldehyde, a potential active agent for the conservation of wood and stone religious artifacts. *European Journal of Science and Theology* 2011, 7(1): 25-34.
21. Palanti S, Feci E, Predieri G, Vignali F, Copper anchored to amino-group functionalized silica gel as wood preservative against brown-rot decay *Maderas Ciencia y Tecnologia* 2010, 12 (3) 259-266
22. Palanti S, Predieri G, Vignali F, Feci E, Casoli A, Conti E, Copper complexes grafted to functionalized silica gel as wood preservatives against fungal decay. *Wood Science and Technology*, 2010. DOI 10.1007/s00226-010-0396-5
23. Temiz A, Alma Mh, Terziev N, Palanti S, Feci E, Efficiency of bio-oil against wood destroying organisms. *Journal of Biobased Materials and Bioenergy* 2010, 4 (4): 1-7. 317-323. DOI 10.1166/jbmb.2010.1092
24. Pometti CI, Palanti S, Pizzo B, Charpentier Jp, Boizot N, Resio C, Saidman Bo, Durability of five native Argentine wood species of the genera *Prosopis* and *Acacia* decayed by rot fungi and its relationship with extractive content. *Biodegradation* 2010, 21(5) 753-760. DOI 10.1007/s10532-010-9340-5
25. Palanti S, Pizzo B., Feci E., Fiorentino L., Torniai A.M., Nutritional requirements for larval development of the dry wood borer *Trichoferus holosericeus* (Rossi) in laboratory cultures *Journal of Pest Science* 2010, 83(2): 157-164 DOI 10.1007/s10340-009-0282-9.
26. Palanti S., Susco D, Feci E, Natural durability of eucalypt from Italian plantations against fungi and cerambicid *Trichoferus holosericeus* Rossi *European Journal of Wood and Wood Products (Holz als Roh- und Werkstoff)* 2010, 61(1): 59-62 DOI 10.1007/s00107-009-0348-7.
27. Macchioni N, Palanti S, Rozenberg P, Measurements of fungal wood decay on Scots pine and beech by means of X-ray microdensitometry", *Wood Sci Technol* 2007, 41(5):417-426 DOI 10.1007/s00226-007-0128-7.
28. Palanti S, Susco D, A New Wood Preservative Based on Heated Oil Treatment Combined with Triazole Fungicides Developed for Above-Ground Conditions *International Biodeterioration and Biodegradation* 2004, 54 (4) 337-342.
29. Palanti S, Susco D, Torniai AM, Preliminary Study Concerning the Resistance to the Attacks of Fungi and Insect of Dunarobba Fossil Forest Wood, *International Biodeterioration and Biodegradation*, 2004, 53 (2) 89-92.
30. Palanti S, Berti S, Becarelli S, Martena F, 2001 A Simple Testing Method for the Measurement of the Water Vapour Transmission of Coated Wood in the Longitudinal and Tangential to Grain Direction , *Holzforschung*, 55 (3),

327-331.

31. Palanti S, Marrazza G, Mascini M, Electrochemical DNA probes, *Analytical Letters* 1996, 29 (13) 1996. pp 2309-2331.

Not Peer Review and secondary document from Scopus

1. Zaremsky A, Palanti S, Mannucci M, Gastonguay L, Le Floch G. (2011). Molecular Diagnosis By Pcr-Dhplc Technique Of Wood-Decay Fungi In Historical Buildings In Italy. *Pro Ligno*, vol. 7, p. 92-97, ISSN: 2069-7430
2. Gambetta A, Palanti S, Becarelli S, Sviluppo e caratterizzazione di due nuovi impregnanti oleo-cerosi per manufatti in legno posti all'esterno, *Pitture e Vernici*, gennaio 2002.

Books

1. Durabilità in Il legno massiccio materiale per un edilizia sostenibile a cura di Roberto Zanuttini Federlegno-Assolegno, 2014 ISBN 978-88-98850-01-3
2. Durabilità naturale del legno, diagnosi del degradamento, trattamenti preventivi e curativi a cura di Sabrina Palanti, 2013 Dario Flaccovio Editore Palermo.
3. Degradamento biologico: durabilità naturale, prevenzione e trattamenti preservanti in Linee guida per l'edilizia in legno in Toscana Berti S., Brunetti M., Capone P., Ciapini E., Fedrigo C., Follesa M., Lauriola M.P., Lavisci P., Macchioni N., Palanga G., Palanti S., Pizzo B., Terranova M., Vasta S., Vignoli A., Edizioni Regione Toscana 2009, Firenze ,Italia
4. Degradamento da agenti non biologici in Linee guida per l'edilizia in legno in Toscana Berti S., Brunetti M., Capone P., Ciapini E., Fedrigo C., Follesa M., Lauriola M.P., Lavisci P., Macchioni N., Palanga G., Palanti S., Pizzo B., Terranova M., Vasta S., Vignoli A. Edizioni Regione Toscana 2009, Firenze ,Italia.
5. Legno. Struttura e composizione: I processi di biodeterioramento in relazioni ai materiali dei beni culturali. Biodeterioramento del legno Berti S, Fanelli C, Palanti S, Pinzari F In: La biologia vegetale per i beni culturali. Vol.1 Biodeterioramento e conservazione, Caneva G., Nugari M.P., Salvadori O. Ed.Società Botanica italiana, Nardini editore, Firenze, 2005, pp.101-103 e pp 104-107.
6. Il controllo del biodeterioramento e il biorisanamento. Materiali organici Nugari MP, Fanelli C, Palanti S, In: La biologia vegetale per i beni culturali. Vol.1 Biodeterioramento e conservazione. Nardini editore, Società Botanica Italiana, 2005, pp.322-326.
7. Berti S, Brunetti M, Crivellaro A, Palanti S, Tecnologia del legno - 6.1 Principali caratteristiche tecnologiche del legno di ciliegio In: Monografia sul ciliegio selvatico (*Prunus avium* L.) CRA Istituto per la Selvicoltura, Arezzo, 2005, pp.107-110.
8. Berti S, Brunetti M, Crivellaro A, Palanti S, Tecnologia del legno. 6.2 Possibili trasformazioni e destinazioni d'uso del legno di ciliegio In: Monografia sul ciliegio selvatico (*Prunus avium* L.). CRA Istituto per la Selvicoltura, Arezzo, 2005, pp111-114.
9. Palanti S, Preservazione in Il legno massiccio in edilizia, idee materiali e tecniche per costruire in armonia con l'ambiente prima edizione Novembre 2003 a cura di Federlegno-Arredo srl, Milano.
10. Palanti S, Linee guida per la determinazione delle cause di degrado del legno in opera, per i trattamenti e le cure in Gli Edifici in pietra, recupero e costruzione, murature solai e coperture, 2003, edizioni Esselibri Spa, Napoli.
11. Palanti S, Indagini Scientifiche in "Sculpture del XII secolo. Il pulpito medievale della pieve di Pescia" di A. Antonelli, Quaderni della Biblioteca Capitolare di Pescia, Edizioni ETS, Pisa, 1999, pp. 63-68.

Patents

1. Bergamonti L, Chiappini E, Predieri G, Palanti S, Maestrello L. (2015) Use of a polyamidoamine polymer for coating wood, paper and lithoid construction materials such as travertine and calcareous stones WO2015004590-A1. International patent Assignee: Renner ITAL SPA

Proceedings

1. Akbas S, Temiz A, Terziev N, M H Alma, Palanti S, Feci E 2016 Effects of Bio-oil Obtained from Laurel (*Laurus nobilis*) Residues on Biological, Physical, and Mechanical Properties of Treated Wood-IRG/WP 16-30692.
2. Fernández-Costas C, Palanti S, Sanromán M Á, Moldes D New perspectives for wood protection: enzyme-based treatments 2016-IRG/WP16-40742
Simonot V, Segura V, Palanti S, Feci E, Ader K, Millier F, Charpentier JP, Paques EL, Evaluation of near infrared spectroscopy as a high-throughput phenotyping method for assessing the natural durability of larch wood *Accepted abstract* for NIR 2015 conference (18th 23rd October 2015, Brazil)
3. G Predieri, L Bergamonti, C Graiff, C Isca, PP Lottici, E Chiappini, L Maistrello and Sabrina Palanti (2015) Characterization of hybrid inorganic-organic polymers for Wood and Paper protection TECHNART 2015 – Catania, April 27 - 30, 2015 Non-destructive and microanalytical techniques in art and cultural heritage.
4. S Palanti, G Predieri, E Feci, L Bergamonti (2015). Polyamidoamines (PAA) functionalized with siloxane fragments as potential wood preservatives IRG/WP Document 15-40708
5. Macchioni N, Palanti S (2015). Recent timber constructions in Italy: General characteristics, qualities and faults based on cases study, Cost Action FP 1303 Performance of Bio-based Building Materials, Tallin Estonia 4 5 March 2015.
6. C Fernández-Costas, S Palanti, M Á Sanromán, D Moldes (2015). Extractives as a source of potential wood-protector for a grafting application Cost Action FP 1006 Advanced in modified functional bio-based surfaces 8-9 April, Thessaloniki Greece.
7. S Palanti, G Predieri, E Feci, L Bergamonti (2015). Polyamidoamines (PAA) functionalized with siloxane fragments as potential wood preservatives Cost Action FP 1006 Advanced in modified functional bio-based surfaces 8-9 April, Thessaloniki Greece.
8. C Fernández-Costas, S Palanti, M Á Sanromán, D Moldes (2015). A novel enzymatic treatments a new approach for wood protection IRG/WP Document 15-40701
9. M Humar, C Brischke, L Meyer, B Lesar, N Thaler, D Jones, S Bardage, C Belloncle, J Van den Bulcke, J M Abascal, G Alfredsen, D Baisch, B Brunnhuber, G Cofta, E Grodås, E Frühwald Hansson, M Irle, H Kallakas, J Kers, M Klamer, P Larsson Brelid, A B Maider, K C Mahnert, E Melcher, R Möller, M Noël, L Nunes, G A Ormondroyd, S Palanti, N Pfabigan, A Pilgård, A O Rapp, P Schumacher, E Suttie, T Teppand, M Touza, J Van Acker (2015). Introduction of the COST FP 1303 Cooperative Performance Test IRG/WP Document 15-20567
10. S. Palanti and Nicola Macchioni, A case study: evaluation of state of conservation of wood panels and beams of a CLT kindergarten. Proposal of a diagnostic approach and realization of an Italian register of service life condition of recent wooden buildings. First Conference Cost Action FP1303, Kraniska Gora, 23-24 October 2014
11. M. Irle, F. Lanata, N. Macchioni S. Palanti. ESB wooden buildings as

- model houses to define the performance through the analysis of design, decay monitoring and environmental parameters. First Conference Cost Action FP1303, Kraniska Gora, 23-24 October 2014
12. S Palanti and M Humar Introduction to WG2 : Functionality and Performance 1st meeting COST Action FP1303, Paris 27-28 January 2014
 13. N. Macchioni S Palanti 2014 Example of a diagnosis on a new X-Lam building in Italy: material decay and monitoring needs 1st meeting COST Action FP1303, Paris 27-28 January 2014
 14. Feci E., Mannucci M., Palanti S. Diagnostic evaluation of insect attack on existing timber structures: a review of some case studies. Proceeding 2nd International Conference on Structural Assessment of Timber Structures Trento (Italy), September 4-6, 2013
 15. Macchioni N., Mannucci M., Olmi R., Palanti S., Riminesi C. Microwave reflectometric tool for non-destructive assessment of decay on timber structure 2nd International Conference on Structural Assessment of Timber Structures Trento (Italy), September 4-6, 2013
 16. Palanti S., Macchioni N., Paoli R., Feci E., Scarpino F., A Case Study: the Evaluation of Biological Decay of a Historical Hayloft in Rendena Valley, Second International Conference "Biodeterioration of Wood and Wood Products" BWWP 2013, 24-27 April 2013 Tartu, Estonia
 17. Le Floch G Palanti S, Mannucci M, Gastonguay L, Zaremski A Molecular diagnosis by PCR-DHPLC technique of wood-decay fungi in historical buildings in Italy. ICWSE 3-5 November 2011; Brasov, Romania
 18. Vignali F, Baratto MC, Basosi R, Müller K, Callone E, Palanti S, Feci E, Elviri L, Predieri G, Synthesis and characterization of wood-silica gel nanocomposites anchoring copper complexes active against biotic decay, XXIV Congresso Società chimica italiana, 11th -16th September 2011
 19. Conti E. and Palanti S. (2010) The situation of wood preservation in Italy. IRG Document 10-40502
 20. Palanti S, Feci E, Predieri G, Vignali F Copper anchored to amino-group functionalized silica gel as wood preservative against brown-rot decay, Wood And Derivates: Sustainable Materials and Products for Future Needs, 22nd-25th March 2010, Rabat-Ifrane
 21. Vignali F, Predieri G, Palanti S, Feci E, Utilizzo di complessi di rame ancorati a gel di silice funzionalizzato come preservanti per il legno contro l'attacco di funghi xilofagi, 9° Sigma Aldrich Young Chemists Symposium: 9° S.A.Y.C.S., Pesaro, 12th -14th October 2009 (short communication).
 22. Casoli A, Feci E, Palanti S, Predieri G, Vignali F, Functionalized silica nanosols as wood modifiers for preservation against fungal decay, Chemistry and Materials for Energy and Health, Bressanone, 30th-3rd December 2009.
 23. Casoli A, Feci E, Palanti S, Predieri G, Vignali F, Wood modification with functionalized silica xerogels for preservation purposes, XIII Congresso Nazionale della Società Chimica Italiana, Sorrento 5th-10th July 2009
 24. Terziev N, Panov, D, Temiz A, Palanti S, Feci E and Daniel G. Laboratory and above ground exposure efficacy of silicon-boron treatments 40th Annual Meeting of the International Research Group on Wood Protection Beijing, China 24th -28th May 2009.
 25. Feci E., Nunes L, Palanti S, Duarte S, Predieri G, Vignali F, Effectiveness of sol-gel treatments coupled with copper and boron against subterranean termites 40th Annual Meeting of the International Research Group on Wood Protection Beijing, China

24th -28th May 2009.

26. Palanti S, Feci E Preservanti del legno da esterno a base di acido borico e altri co-formulanti: un'alternativa ecocompatibile ai sali di rame III CONGRESSO NAZIONALE DI SELVICOLTURA, Taormina (ME), 16th-19th October 2008
27. Vignali F, Casoli A, Feci, E, Palanti S, Predieri G, New wood preservatives based on copper chelates and copper complexes grafted to functionalized silica xerogels, VIII Giornata della Chimica dell'Emilia Romagna, Ferrara, 16th December 2008.
28. Palanti S, Predieri G, Casoli A, Vignali F, Feci E, New preservatives based on copper chelates and copper complexes grafted to functionalized silica gel Final Conference COST E 37 29th-30th September 2008, Bordeaux www.bfafh.de/cost37.htm
29. Palanti S, Decay on timber structures; the most important organisms in Italy, ESTB08 Sixième Ecole de Sciences e Technologies du Bois, Bois: Patrimoine et Artisanat , Rabat 23th-26th April 2008
30. Palanti S, Decay on timber structures; the most important organisms in Italy The Second Sino-Italy Workshop of the Conservation and Restoration for Wooden Heritage, 21th-23th January 2008, Ningbo, China
31. Palanti S, X ray microdensitometry for measurement of fungal decay - Preliminary experiments on scots pine and beech 11th workshop on 4th- 6th November 2007, CNR IVALSIA Florence, Italy www.bfafh.de/cost37.htm.
32. Brunetti M, Cremonini C, Crivellaro A, Feci E, Palanti S, Pizzo B, Santoni I, Zanuttini R, Thermal treatment of hardwood species from Italian plantations: preliminary studies on some effects on technological properties of wood "Proceedings of International Scientific Congress on Hardwood Processing, 24th -26th September 2007, Québec City, Canada, pages 325-333. www.ischp.ca.
33. Palanti S, Brunetti M, Feci E, Il legno per impieghi in esterno: una sperimentazione di preservanti a basso impatto ambientale" poster presso Energethica, 2° Salone dell'energia rinnovabile e sostenibile Genova 24th -26th May 2007.
34. Palanti S, Field trial results for metal free wood preservatives"Meeting Cost E 37, Poznan, Poland, 5th -8th May 2006, www.bfafh.de/cost37.htm
35. Conti E, Palanti S, Country State of art Report: Italy, First Meeting Cost Action E37, Ljubljana, Slovenia 5th -6th June 2004, www.bfafh.de/cost37.htm.
36. Palanti S, Trattamenti per il legno a basso impatto ambientale, presentazione nel Convegno CHIMICA VERDE nell'ambito della manifestazione "TERRA FUTURA" Firenze Fortezza da basso 1-3 aprile 2004.
37. Gambetta A, Palanti S, Il legno nelle Costruzioni: cause di degradamento biologico e trattamenti preservanti preventivi, Salone internazionale dell'arte del Restauro e della Conservazione dei Beni Culturali ed Ambientali, Ferrara, 29th March 1st April 2001.
38. Becarelli S, Berti S, Palanti S, Sviluppo di un metodo sperimentale per la determinazione della permeabilità al vapore acqueo del legno. Applicazione del metodo per la valutazione dell'influenza di prodotti impregnanti sulla permeabilità del legno".Salone internazionale dell'arte del Restauro e della Conservazione dei Beni Culturali ed Ambientali, Ferrara, 24th -27th March 2000.
39. Marrazza G, Palanti S, Mascini M, Sviluppo di un sensore elettrochimico monouso per il DNA, XIII Congresso Nazionale di Chimica Analitica, S. Martino del Cimino (Viterbo) 7th -11th September 1997.

40. Palanti S, Marrazza G, Mascini M, A Prototype DNA Sensor Based on Electroactive Hybridization Intercalator in "Proceedings of the 1st Italian Conference Sensors and Microsystems", World, Editors C. Di Natale e A. D'Amico, World Scientific Publishing Co. Pte. Ltd, Singapore, 1996, pp. 196-200.
41. Palanti S, Marrazza G, Mascini M, Preparation of a Voltammetric DNA Sensor Based on Electroactive Hybridization Intercalator , Biosensors 96, The Fourth World Congress on Biosensors, Bangkok 29th - 31st May 1996.
42. Palanti S, Marrazza G, Mascini M, A disposable DNA biosensor for Chlamydia bacteria detection, Workshop A. B. I. n° 3, 10th -12th October 1996, Tubinghen, (Germany).
43. Palanti S, Marrazza G, Mascini M, A Prototype DNA sensor based on electroactive hybridization intercalator, Prima Conferenza Nazionale Sensori e Microsistemi, Roma, 18th -20th February 1996.
44. Palanti S, Marrazza G, Mascini M, A voltammetric sensor based on an electroactive hybridization intercalator, Workshop A. B. I. n° 2, Surface characterization and Optical Sensing Methods in Biosensors, Tampere (Finlandia), 17th -20th June 1995.
45. Palanti S, Marrazza G, Mascini M, Realizzazione di un sensore per DNA voltammetrico basato su composti intercalanti elettroattivi, XII Congresso nazionale di chimica analitica, Firenze, 20th -22th September 1995.

12 September 2016