

Proyecto de Difusión Tecnológica:

"Proyectar, manufacturar y construir de forma sostenible con sistema de madera contralaminada (CLT)"

Actividades con expertos Internacionales.

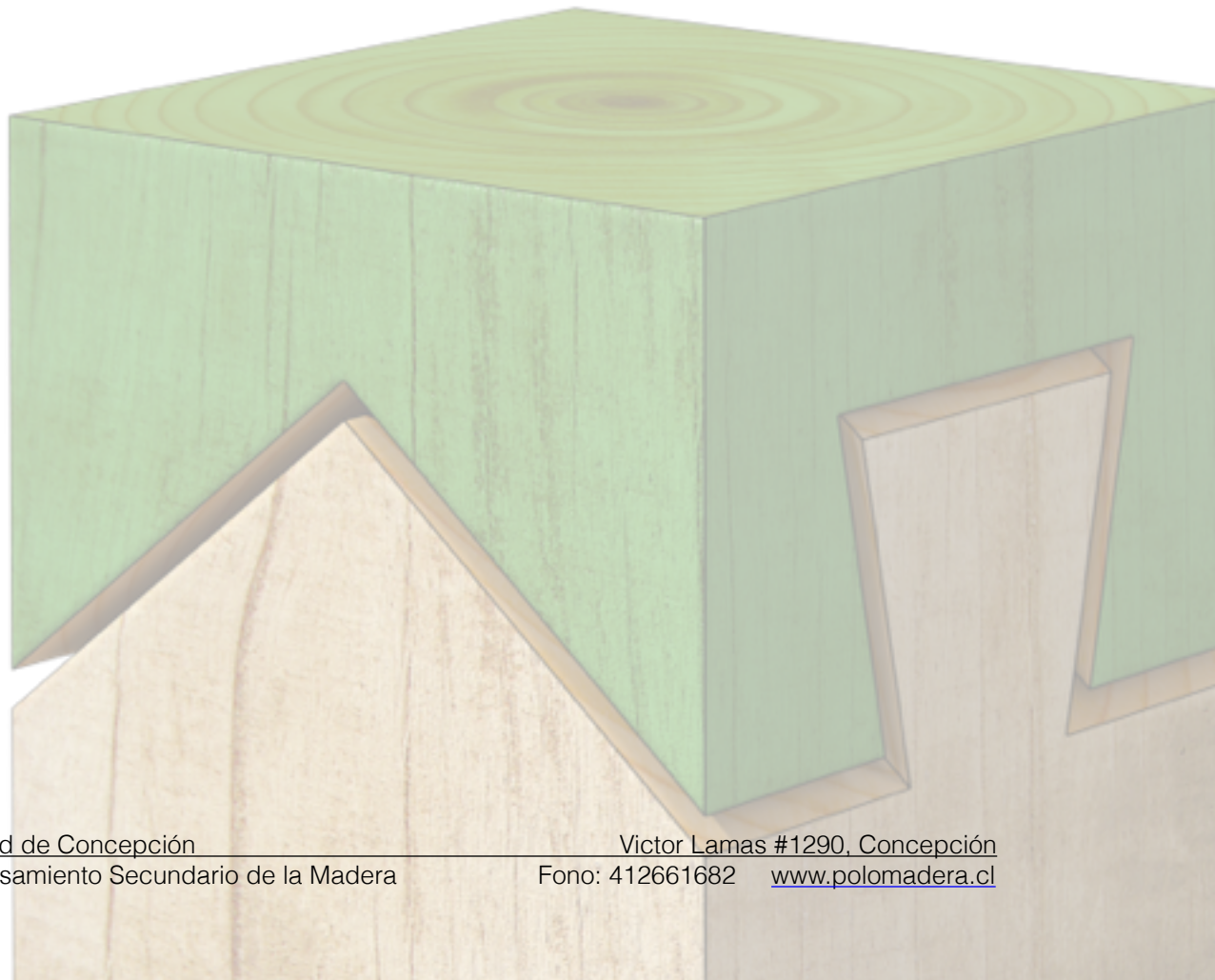
ITEM	Fecha Inicio	Horario	Experto
Seminario Inaugural - Concepción	Martes 07 de nov. 2017	9:00 a 13:00	Albino Angeli Manuel Guatia
Taller 1: Concepción "Concepción de un edificio en CLT"	Martes 07 de nov. 2017 Miércoles 08 de nov. 2017	14:30 a 18:30 9:00 a 13:00	Albino Angeli Manuel Guatia
Taller 1: Talca "Concepción de un edificio en CLT"	Jueves 09 de nov. 2017	9:00 a 18:30	Albino Angeli Manuel Guatia
Taller 1: Temuco "Concepción de un edificio en CLT"	Viernes 10 de nov. 2017 Sábado 11 de nov. 2017	14:30 a 18:30 9:00 a 13:00	Albino Angeli Manuel Guatia
Taller 2: Concepción "Estructuras en CLT"	Martes 21 de nov. 2017	9:00 a 18:30	Simone Vanzo
Taller 2: Talca "Estructuras en CLT"	Jueves 23 de noviembre 2017	9:00 a 18:30	Simone Vanzo
Taller 2: Temuco "Estructuras en CLT"	Viernes 24 de nov. 2017 Sábado 25 de nov. 2017	14:30 a 18:30 9:00 a 13:00	Simone Vanzo
Taller 3: Concepción "Eficiencia Energética"	Martes 09 de enero 2018	9:00 a 18:30	Alice Speranza
Taller 3: Talca "Eficiencia Energética"	Jueves 11 de enero. 2017	9:00 a 18:30	Alice Speranza
Taller 3: Temuco "Eficiencia Energética"	Viernes 12 de enero 2018 Sábado 13 de enero 2018	14:30 a 18:30 9:00 a 13:00	Alice Speranza
Taller 4: Concepción "Instalaciones"	Martes 16 de enero 2018	9:00 a 18:30	Gianluca Morini
Taller 4: Talca "Instalaciones"	jueves 18 de enero 2018	9:00 a 18:30	Gianluca Morini
Taller 4: Temuco "Instalaciones"	Viernes 19 de enero 2018 Sábado 20 de enero 2018	14:30 a 18:30 9:00 a 13:00	Gianluca Morini
Taller Práctico Concepción	Martes 13 de marzo 2018 Miércoles 14 de marzo 2018	9:00 a 18:30 9:00 a 18:30	Federica Morandi Paolo Veggetti
Seminario Final - Concepción	Jueves 15 de marzo 2018	9:00 a 13:00	Federica Morandi Paolo Veggetti

	Concepción
	Talca
	Temuco

Nota: El calendario muestra las principales actividades programadas para el PDT, sin embargo las fechas propuestas pudiesen, eventualmente, sufrir modificaciones. Adicional a las actividades agendadas, se coordinarán reuniones personalizadas con cada una de las empresas beneficiarias para realizar seguimiento y asesoría en los anteproyectos de inversión que estas deberán presentar una vez finalizado el Programa.

ANEXOS

CONTENIDO SEMINARIOS Y CURSOS
Y
CV EXPERTOS



University of Bologna

Proyectar, manufacturar y construir de forma sostenible con sistema de madera contralaminada (CLT)

Department of Industrial Engineering
Alma Mater Studiorum - University of Bologna, Italy

Ing. Federica Morandi*



August 17, 2017

Seminario inaugural

Sostenibilidad y mercado de la construcción en CLT

Relatores: Frane Zilic, Albino Angeli, Manuel Guaita, Paulina Gonzales

Período: 7 nov 2017

- Saludos autoridades (15 min)
- Frane: stato attuale in Cile (15 min)
- Mariano Garces Rothoblaas (15 min)
- Albino Angeli (60 min)
- Manuel Guaita (60 min)
- Paulina Gonzales USACH Su expertise en CLT (30 min)
- Jorge Calderón Díaz (30 min)
- Preguntas (30 min)

Una visión panorámica de la evolución y proyecciones de crecimiento de las edificaciones en CLT en Europa, tanto en edificios públicos, privados, edificaciones habitacionales y en altura, sus características principales y atributos de confort, habitabilidad y sostenibilidad. Aportes del CLT al desarrollo de la construcción sostenible en Europa, desde el punto de vista ambiental, social y económico. Tecnología y materiales utilizados. Marco normativo UE. Análisis del ciclo

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de vida de los materiales. La evolución técnica y normativa en estructuras, eficiencia energética, eficiencia acústica. Industrialización de la construcción en madera.

Talleres

Taller 1 - Concepción de un edificio en CLT

Relator: Albino Angeli, X-Lam Dolomiti

Período: 6-12 nov 2017

Introducción sobre las diferentes tipologías constructivas en madera, ventajas y desventajas. La evolución del mercado de la madera en Europa.

Proyectando edificios en madera CLT, considerando aspectos del ámbito sísmico, resistencia al fuego, acústica estructural, durabilidad y trabajo en obra (montaje y terminaciones). Se presentarán las últimas investigaciones del sector de la edificación en madera CLT, la situación normativa aplicable a edificación en madera en Europa, soluciones técnicas que aplican para satisfacer las exigencias de habitabilidad.

Contenidos:

1. Principios para diseñar con CLT; referencias normativas
2. La madera como material y sistema constructivo
3. Producción de CLT y características técnicas
4. Diseño: desde el proyecto hasta el montaje
5. Estructuras de CLT en zonas sísmicas: principios de diseño, modelación FEM
6. Proyectando contra el fuego
7. Detalles constructivos para garantizar la durabilidad (ejemplos prácticos realizados en obra)
8. Estudio de nuevos materiales para CLT

Taller 2 - Cálculo de conexiones en CLT

Relator: Simone Vanzo, Rothoblaas

Período: 20-25 nov 2017

Se analizarán los principios de proyecto de las construcciones en CLT, con foco en la estructura. Se presentarán sistemas de conexiones típicas para edificios de madera. Principio del proyecto sísmico de los edificios de madera. Además se presentará un innovador sistema de conexión puntual para edificios en altura, X-RAD.

Contenidos:

1. Introducción
2. Principios de cálculo para cargas verticales y horizontales en CLT

3. Diseño de elementos horizontales y verticales
4. Diseño de edificios de CLT bajo cargas horizontales, vientos y terremotos
5. Investigaciones del comportamiento sísmico en CLT
6. Cálculo de conectores estructurales de placas metálicas y tornillos para CLT
7. X-RAD?

Taller 3 - Eficiencia energética de un edificio en CLT

Relator: Alice Speranza, Rothoblaas

Período: 8-14 ene 2018

Análisis de soluciones para garantizar una correcta impermeabilización y estanqueidad del aire, evaluando opciones de diseño y tipología de materiales. Aislamiento de un edificio en CLT desde el punto de vista térmico y acústico. Detalles constructivos y estratigrafías de un edificio pasivo en CLT.

Contenidos:

1. La evolución de las características de la envolvente termica en Europa
2. Principios de fisica de los edificios
3. Proyectar y diseñar sin puentes térmicos
4. Soluciones técnicas, materiales y sellos de aislamiento y de impermeabilización
5. Estratigrafías típicas de los edificios en CLT en climas cálidos, mediterráneos y fríos —
Qua parlare solo dei nostri climi Maule BioBio Araucania
6. Elección y aplicación de materiales para la estanqueidad al aire y al viento
7. Instalación de cerramientos de vanos en edificios en CLT
8. Acústica?

Características termicas y higrometricas, condensación superficial y condensación intersticial. Calculo estatico de la resistencia al vapor y de la transmitancia (Gian Luca tratará de la mod-elación dinamica. Hermeticidad al viento y al aire. Blower door test. Barreras al vapor, frenos al vapor, laminas transpirantes, cintas adhesivas. Estratigrafías típicas de algunas zonas climáticas de Chile. Fachadas ventiladas, techos. Focus en la correcta aplicación de los productos.

Taller 4 - Instalaciones en un edificio pasivo en CLT

Relator: Gian Luca Morini, Universidad de Bologna

Período: 15-20 ene 2018

Se presentará una visión completa de los aspectos técnicos y prácticos de la realización de un edificio en CLT, con sus conexiones, pre dimensionamiento e instalaciones de las diferentes especialidades.

Disponibilidad para entregar unas horas adicionales de seminario sobre el estado del arte de la normativa en Europa y la de Chile para identificar la brecha existente.

Contenidos:

1. IAQ y HVAC, su importancia en los edificios en CLT
2. Protocolo de certificación y pruebas en obra, de acuerdo a normativa UE
3. Diseño y realización en obra de las instalaciones sanitarias, eléctricas y de climatización
4. Instalaciones en un edificio pasivo en CLT
5. Modularidad de las instalación en edificios con alto grado de prefabricación
6. Modelación estacionaria y dinamica de un edificio en CLT en relación con edificios tradicionales en diferentes areas climáticas de Chile — Maule Biobio Araucania

Aplicación practica y seminario final

Construcción de una casa (modelo demostrativo) en CLT

Relatores: Paolo Veggetti, Federica Morandi, Jorge Calderón Díaz

Período: 12-18 mar 2018

En este curso se pondrán en práctica los conocimientos técnicos de los cursos anteriores, a fin de materializar dichos conocimientos en una obra a escala real. Además, se realizarán mediciones prácticas con el fin de comprobar el correcto uso de los diferentes materiales utilizados en la obra, siguiendo los criterios de una correcta realización estructural, térmica y acústica.

La interacción de las especialidades con la envolvente y la estructura: casos prácticos. Realización o transporte de pequeños mock-up demostrativos. Comprobación de la envolvente térmica en terreno: blower door test.

CURRICULUM VITAE ALBINO ANGELI



PERSONAL INFORMATION

First name Surname

ANGELI ALBINO

Home address

VIA DELLE POZZE , 7– 38020 COMMEZZADURA (TN), ITALY

Mobile

+39 339 2670193

E-mail

Ing.albino.angeli@gmail.com

Nationality

Italian

Date of Birth

11 / 02 / 1979

Status

Married

EDUCATION

Dates

November 2005

Title of qualification awarded

Engineer qualification (required in Italy to practise the profession of engineer)

Dates

March 2005

Title of qualification awarded

M.S. in Civil Engineering with honors

Name and type of organisation
providing education and training

University of Trento

Final dissertation title: "Experimental research on wooden elements with ductile or pseudo-ductile behavior".

Advisor: Prof. Maurizio Piazza

Co-advisors: Prof. Luca Gottardi and Prof. Roberto Tomasi

Dates

June 1998

Title of qualification awarded

High school diploma

Name and type of organisation
providing education and training

Business and Technical Institute for Surveyors "Carlo Antonio Pilati", Cles (TN), Italy

OTHER COURSES AND QUALIFICATIONS

- Awarded with Schweighofer price 2015 with the connection system X-RAD
- Qualification as "health and safety coordinator on the working site during the design and execution phases" after a 120 hour course in Trento, Italy in 2004
- Awarded with "Ito Del Favero" prize for one of the best final dissertations in 2006
- "House Climate Junior" – 40 hour course attended in September 2009

WORK EXPERIENCES

Dates	April 2015 to now
Name and address	XLAM DOLOMITI (www.xlamdolomiti.it)
Type of business or sector	Production, design and build of CLT building
Occupation or position held	Technical director of the company
Main activities and responsibilities	<p>Technical manager for the technical department</p> <p>Research, development and design of new structural solution for the CLT</p> <p>Structural design of timber house and structure</p> <p>Technical training for designers and carpenters.</p>
Dates	June 2005 to April 2015
Name and address of employer	Rotho Blaas s.r.l. Via dell'Adige 2/1 – 39040 Cortaccia (BZ), Italy
Type of business or sector	Fixing systems for carpentry
Occupation or position held	Technical director of the company
Main activities and responsibilities	<ul style="list-style-type: none">- National and European trade of carpentry products;- Research and continuous innovation in the field <p>Technical manager for the technical "consulting" department</p> <ul style="list-style-type: none">- Technical manager for the technical "product engineer" department- Technical manager for the technical "quality assurance" department- Technical training both internal, for the sales network, and external, for designers and carpenters.- Technical advice for customers and research for planning solutions with special reference to the joints of wooden structures- Technical training both internal, for the sales network, and external, for designers and carpenters.- Research, development and design of new joint systems for both static (e.g. Project Leader) and practical needs (e.g. carpenter) and for their implementation, including their certification and divulgation- Collaboration in several scientific research projects in which Rothoblaas is involved (e.g. SOFIE project – www.progettosofie.it).
Dates	September 2005 to present
Type of work	Structural design activities as freelancer
	Wooden structures, among them numerous roofings (dimensioning and verification of more than 500.000 sqm roofings), wooden buildings (more than 150 buildings entirely made of wood and statistically measured) and small structures with reinforced concrete and steel.

Main works

Type: Plywood coverings

Project: Covering of the restaurant of Park Hotel located in Folgarida (TN), Italy.

Firm: Cut Centre "Holz Design"

Technical features: irregular hexagonal layout with 2 cross trusses arranged in a light equal to 26 metres.



Type: Wooden building with X-Lam system

Project: Extension with X-Lam system of the "Azalea" Hotel, Cavalese (TN), Italy

Developer company: STP

Technical features: rectangular building – 15m long x 9m wide and a volume of 1100 cubic meters.



Type: Large structures

Project: Enlargement of the main office (and of the production building) of the company Rotho Blaas located in Cortaccia (BZ), Italy, with a structure built with steel pillars, wooden ceilings and glass external walls.

Developer Companies: STP for the wooden part, Holzbau for the supply of wooden elements and Stahlbau Pichler for the steel part.

Technical features: rectangular plan – 55 m long x 45 m wide and a volume equal to 32000 cubic meters. Cost of the structural part of the work equal to 2 Million Euro.



Type: Wooden building – frame system

Project: Church of Onna located in the town of L'Aquila, Italy

Developer companies: Zanella Legnami

Technical features: building, with a total surface area of 180 sqm, designed within an experience as volunteer in the summer of 2009; this building was built by a group of volunteers from Sole Valley (TN), Italy, and opened in December 2009.



From 2007 to 2009
Name and
address of employer
Type of work

Faculty of Engineering

University of Trento

Trento, Italy

Teaching activities as a tutor within the course of "Structural Rehabilitation" whose lecturer was Prof. Maurizio Piazza.

Teaching activities as co-advisor for some final dissertations written by students under the supervision of Prof. Maurizio Piazza; the most significant are enlisted below:

- Mario Mores, *Numerical-experimental study on monotone post-elastic and low cycle behavior of timberworking joints made with self-threading screws*, University of Trento, Faculty of Engineering, 2005/2006;
- Andrea Malatesta, *Experimental study on timber-timber connecting systems with cylindrical stem elements*; University of Trento, Faculty of Engineering, 2006/2007
- Alessandro Crosatti, *Experimental study on wood-wood connection systems with self-drilling inclined screws and surface elements*; University of Trento, Faculty of Engineering, 2006/2007
- Marcella Rizzi; *Refurbishment of traditional timber floors by means of wood-wood composite structures assembled with inclined screw connectors*, Faculty of Engineering, 2009/2010.

From 2006 to 2014

Attended numerous congresses and technical trainings as a speaker.

More recent international congresses

- December 2014 Ireland COST FP1101 Training School Galway - Screw properties & Reinforcement of connections
- August 2014 Canada - WCTE (Word Congress on Timber Engineering) - An innovative connection system for clt structures: experimental – numerical analysis
- August 2014 Canada - WCTE (Word Congress on Timber Engineering) - structural characterization of multi-storey buildings with clt cores
- April 2014 - CLT Training Course Trento - COST Action FP 1004
- April 2014 - Trainer inside the postgraduate master on Building - University di Bilbao (en español)
- December 2013 Training school on Assessment and reinforcement of timber elements COST ACTION FP1101 - University of Mons
- March 2012 - Course Proholz Spagna Orense - "Curso de especialización en diseño y ejecución de revestimientos y deckings con madera" (en español)
- March 2012 – Fachtagung Befestigungstechnik Holzbau SFS - Sanierung mit doppelgewinde-schrauben: forschungs-ergebnisse bezüglich schloss Belasi (auf Deutsch)
- November 2011 – Course Proholz Spagna Madrid – Impulsos construir con madera controlaminada Sistema de anclaje, utillaje medios auxiliar (en español)
- October 2010 – University Minho Portugal - Sistemas estándar de fijacion metálica (en español)
- 2010-2011-2012-2013-2014 – Professor inside the postgraduate master on timber structure - University of Santiago di Compostela – Elementos de fijacion especiales - Rehabilitacion estructural del suelo en madera (en español)
- July 2009 - University of Madrid; Technical school on structural timber design - Elementos de fijacion especiales - Rehabilitacion estructural del suelo en madera (en español)
- April 2009 – Praga (Ceck Republic), Annual seminar about timber engineering - Ductile connections for timber structures (in English)
- August 2006 - Portland (U.S.A.), WCTE (Word Congress on Timber Engineering) - A new ductile approach design of joint assembled with screw connectors (in English)

From 2006 to 2009

Few international
publications

- WCTE (Portland 2006): *A new ductile approach design of joint assembled with screw connectors* - Autori: Roberto Tomasi, Maurizio Piazza, Albino Angeli e Mario Mores
- PROHITEC (Roma 2009): *Refurbishment of traditional timber floor with inclined screw connectors* - Autori: Alessandro Crosatti, Maurizio Piazza, Roberto Tomasi e Albino Angeli
- REMO (Wroclaw - Polonia 2009): *Operational stages and criteria in the rehabilitation of timber floors in the Belasi castle (trentino, italy) connectors* - Autori: Roberto Tomasi, Maurizio Piazza, Albino Angeli
- WCTE (Riva 2010): *refurbishment of traditional timber floors by means of wood - wood composite structures assembled with inclined screw connectors* - Autori: Albino Angeli Maurizio Piazza, Roberto Tomasi, e Mariapaola Riggio
- WCTE (Riva 2010): *experimental analysis on a t-shaped metallic profile connection between main and secondary beams* - Autori: Albino Angeli, Matteo Moretton, Andrea Polastri, Maurizio Piazza e Roberto Tomasi
- WCTE (Quebec 2014) *An innovative connection system for CLT structures: experimental – numerical analysis*
- WCTE (Quebec 2014) *A new construction system for CLT structures*

Publication of editorials on magazines regarding the wood industry and of scientific articles.

Publication of numerous editorials on national magazines regarding the wood industry and energy saving, in particular collaboration with the following magazines: Tetto Pareti – In legno, Area Legno, Mondo Legno, Casa Clima.

INFORMACIÓN PERSONAL

Vanzo Simone



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☎ 3490834492

✉ simone.vanzo@gmail.com

Sexo Masculino | Fecha de nacimiento 28 may. 86 | Nacionalidad Italiana

EXPERIENCIA PROFESIONAL

25 jun. 12–presente

Technical department

Rotho Blaas srl
via dell'Adige 2/1, 39040 Cortaccia (Italia)
www.rothoblaas.com

- Asesoramiento técnico directo a los clientes y técnicos
- Creación de herramientas para el diseño (dibujos técnicos, documentos de instrucciones, hojas de datos, especificaciones de productos)
- Product Management (contacto con proveedores, planos de fabricación, control de calidad de los primeros suministros)
- Soporte al departamento de control de calidad
- Desarrollo de nuevas soluciones / productos y herramientas de lanzamiento de productos en el mercado
- Ponente cursos/seminarios en los colegios profesionales, universidades y empresas sobre temas relacionados con la construcción con madera
- Gestión de las reclamaciones de productos

jul. 07–ago. 07

Building frame worker

Rocca Luigi Lavori Edili
Via Marzelin 5, 38033 Cavalese (Italia)

Actividad de obrero en construcciones tradicionales y de carpintería de madera

jul. 05–ago. 05

Dibujador técnico

Studio tecnico Vinante geom. Giampiero
Via Fratelli Bronzetti 47, 38033 Cavalese (Italia)

Diseño arquitectónico, contabilidad de trabajos, gestión de catastrales, topográficos

jun. 04–ago. 04

Dibujador técnico

Studio tecnico Vinante geom. Giampiero
Via Fratelli Bronzetti 47, 38030 Cavalese (Italia)

Diseño arquitectónico, contabilidad de trabajos, gestión de catastrales, topográficos

jul. 03–ago. 03 **Stage**
 Ayuntamiento Cavalese, Cavalese (Italia)
 Colaboración en la gestión de las prácticas de construcción, diseño de obras públicas de pequeño tamaño

EDUCACIÓN Y FORMACIÓN

oct. 13 **Calificación a la profesión de ingeniero**

sep. 05–jul. 12 **Licenciatura especializada en ingeniería edil-arquitectura (105/110)**

Universidad de Trento - Facultad de Ingeniería, Trento (Italia)

Tesis: "El proceso de regulación para el mercado CE de tableros contralaminados CLT. Análisis numérico y experimental de las propiedades mecánicas, igrometricas y acusticas".

El curso de Licenciatura integra las competencias tradicionalmente propias de los ingenieros, por cuánto atañe los instrumentos del planeamiento en el ámbito estructural y tecnológico, a las competencias típicas de los arquitectos, por cuánto concierne el planeamiento arquitectónico y urbano, comprendidos la recuperación del patrimonio constructor existente, la restauración y la conservación del patrimonio storicoconio

5 mar. 11–20 mar. 11 **Participación al programa intensivo internacional "User Friendly Diseño and Innovations for Séniore citizens"**

(5-20 marzo 2011, Jyväskylä, Finlandia) Westsächsische Hochschule Zwickau, Germany e Jyväskylä University of Applied Sciences, Finland

sep. 08–jul. 09 **Programma interscambio LLP Erasmus**

ETSA - Granada "Escuela Técnica Superior de Arquitectura de Granada", Granada (España)

Periodo di studio all'estero di 11 mesi durante gli studi universitari nell'ambito del programma di interscambio LLP Erasmus.

sep. 00–jun. 05 **Diploma de Aparejador (100/100)**

Istituto Tecnico per Geometri "Andrea Pozzo", Trento (Italia)

COMPETENCIAS PERSONALES

Lengua materna italiano

Otros idiomas

	COMPRENDER		HABLAR		EXPRESIÓN ESCRITA
	Comprensión auditiva	Comprensión de lectura	Interacción oral	Expresión oral	
español	C1	C1	C1	C1	C1
inglés	B1	B1	B1	B1	B1

Niveles: A1 y A2: usuario básico - B1 y B2: usuario independiente - C1 y C2: usuario competente
 Marco común Europeo de referencia para las lenguas

Competencias comunicativas

Buena capacidad de comunicación, relación y comparación emergidas sobre todo en los numerosos grupos de trabajo;

El espíritu de grupo y las buenas capacidades de conformarse a los entornos multiculturales ha sido mejorada gracias a las dos experiencias de estudio al extranjero y el continuo contacto con el

mercado extranjero

Competencias de organización/
gestión

Colaboración en grupos de trabajo en ámbito laboral.
Capacidad de trabajar en situaciones de estrés, atadas sobre todo a los plazos impuesto

Competencias relacionadas con
el empleo

Buena conocimiento de los procesos de control calidad y de los proceso de marcado CE de productos para la construcción.
Participación activa en el desarrollo de productos innovativos, de la idea al lanzamiento en el mercado,

Competencia digital

AUTOEVALUACIÓN				
Tratamiento de la información	Comunicación	Creación del contenido	Seguridad	Resolución de problemas
Usuario independiente	Usuario independiente	Usuario independiente	Usuario independiente	Usuario independiente

Competencias digitales - Tabla de autoevaluación

Uso del ordenador en entorno Windows y Mac

Excelente conocimiento de MS Office y el paquete de navegación por Internet

Excelente conocimiento de 2D y 3D de Autocad

Buen conocimiento de algunos programas gráficos (Adobe Photoshop, Adobe Illustrator, Adobe InDesign)

Buen conocimiento de aplicaciones para el modelado 3D y renderizado (3Dstudio, Rhinoceros, ArchiCAD)

Permiso de conducir

B

INFORMACIÓN ADICIONAL

"In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree."

**EUROPASS
CURRICULUM VITAE**



PERSONAL INFORMATIONS

Name **SPERANZA ALICE**
Address **VIA S. MARIA MADDALENA, 3 – SAN LORENZO DORSINO (TN)**
Phone number **+39 0465 730031 Mobile: +39 366 1090943**
Fax **+39 0465 735022**
E-mail **alice.speranza87@gmail.com**

Nationality Italian
Date of birth 01/03/1987
Gender Female

WORK EXPERIENCE

Dates	November 2014 - present
Occupation or position held	Member of the UNI "Discontinuous roofing GL"
Name and address of employer	UNI ente nazionale di normazione - Via Sannio 2, 20137 MILANO MI Tel. +39 0270024.1 Fax +39 0270024375
Main activities and responsibilities	Contribution to the preparation and modification of the UNI regulations in the field of realization of discontinuous roofing
Dates	30/07/2012 – present
Occupation or position held	Product engineer (Product Management / Project Leader) waterproofing sector and acoustic Relator for various courses organized by the association of engineers and architects in various Italian Provinces
Name and address of employer	Rotho Blaas srl - Via Dell'Adige N. 2/1, I-39040, Cortaccia (BZ) Tel. +39 0471 818400 Fax +39 0471 818484
Type of business or sector	A multinational company specialized in developing technical solutions for the wooden structures
Main activities and responsibilities	Development, consulting and product certification in the waterproofing industry and structural acoustics. Participation as a speaker in courses held by rothoblaas and internal staff training. Product claims and resolution of site problems regarding application and use of articles of the waterproofing industry, air tightness, acoustic.
Dates	07/2011 – 11/2011
Occupation or position held	Participation as a contributor to the design competition for the new headquarters of the CEIS, Hydroelectric Consortium of Stenico. Next victory and commission the final and executive project.
Main activities and responsibilities	Compilation of technical Illustrative report. Collaboration throughout the compositional, structural and choices of manufacturing technologies.

EDUCATION AND TRAINING

Dates	02/2017 - present
Principles subjects / occupational skills covered	Specific course for Applied Acoustics and Lighting
Name and type of organization providing education and training	Scuola di ingegneria ed architettura - Alma mater studiorum Università di Bologna / University of Bologna
Dates	07/04/2014
Title of qualification awarded	Entry to Register of Engineers of the Province of Trento n. 3952
Name and type of organization providing education and training	Ordine degli Ingegneri della Provincia di Trento Piazza S. Maria Maggiore – 38122 Trento
Dates	14/06/2013
Title of qualification awarded	Passivhaus Designer
Principles subjects / occupational skills covered	Building energy-efficient buildings, tightness of buildings, forced ventilation systems, leading industry standards at European-national level, construction problems.
Name and type of organization providing education and training	Passivhaus Institut, Rheinstr. 44/46, 64283 Darmstadt
Dates	09/2006 – 07/2012
Title of qualification awarded	Master's degree in Building Engineering - Architecture - Rating 100/110
Principles subjects / occupational skills covered	Structural and architectural design of the various types of buildings, particularly in the architecture of wood, wood and masonry structures with insights in the field of green building and low energy building.
Name and type of organization providing education and training	Università degli Studi di Trento – Facoltà di ingegneria, via Mesiano, 77 – 38123 Trento
Dates	09/2001 – 06/2006
Title of qualification awarded	High school Diploma
Principles subjects / occupational skills covered	Mathematics, Physics, Chemistry, Humanities, English, Latin, Philosophy, History, English and German
Name and type of organization providing education and training	Istituto di Istruzione Lorenzo Guetti – via Durone, 53 – 38079 Tione di Trento

PUBLICATIONS

A: Speranza, L. Barbaresi, F. Morandi, "**Experimental analysis of flankng transmission of different connection systems for CLT panels**" in Proceedings of the World Conference on Timber Engineering 2016, Vienna, August 2016

L. Barbaresi, F. Morandi, M. Garai, A. Speranza, "**Experimental analysis of flankng transmission in CLT structures**" in Proceedings of the International Congress on Acoustics 2016, Buenos Aires, September 2016.

L. Barbaresi, F. Morandi, M. Garai, A. Speranza, "**Experimental analysis of flankng transmission in CLT structures**" of Meetings on Acoustics (POMA), a serial publication of the Acoustical Society of America - POMA-D-17-00015

PARTICIPATION IN CONFERENCES

(international)

Dates	22/08/2016
Event	WCTE (World Conference Timber Engineering) 2016
Title or theme presented	Experimental analysis of flankng transmission of different connection systems for CLT panels

Dates	10/03/2017
Event	AIA Symposium - Advanced research in timber construction: acoustics quality, environment and safety
Title or theme presented	The experience of Silent Timber Build

PERSONAL SKILLS

MOTHER TONGUE

Italian

Reading / Listening

C1

Writing

C1

Spoken interaction and production

C1

Reading / Listening

German
B1

Writing

B1

Spoken interaction and production

B1

COMMUNICATION SKILLS

Ability to work in team gained thanks to the university or workplace. Experience also enhanced by numerous groups within the company Rotho Blaas srl with respect to team building as well as having managed some collaborators in team projects.

Good experience in cultivating and maintaining scientific network, university and business with several medium / large reality in both in Europe and outside Europe.

Excellent communication skills and outgoing character, but respectful of space and contributions of others.

Engagement in volunteering and cultural activities promoted by the own valley.

MANAGEMENT/ORGANIZATION SKILLS

Good skills and experience to handle several types of projects and planning of heterogeneous groups. Thanks to the experience as a Product Engineer (Product Manager / Project Manager). Developed expertise in the management of products, at the level of compliance with European, national and international standard.

Valuable experience in management and participation in projects financed by the European Union or public sources that link different entities ricerca and companies in Europe.

TECHNICAL SKILLS

- Thermodynamic simulation program: WUFI
- Company and document management program: Semiramis, StockSystem, CRM
- Programs for the calculation: Maple (good knowledge), used for the realization of the structural calculation within the thesis.
- Multiphysics analysis program: COMSOL Multiphysic (good knowledge).
- GIS programs: Grass (good knowledge), MapInfo (good knowledge)
- Graphics programs and three-dimensional modeling: AutoCAD (excellent knowledge); ArchiCAD (excellent knowledge); Cinema 4D (excellent knowledge fluent); Adobe package (excellent knowledge);
- Program Office: excellent knowledge of both Microsoft Word and Microsoft PowerPoint. very advanced Microsoft Excel Knowledge for the realization of spreadsheets both structural and of various kinds.
- Excellent knowledge of iLive programs, iWork and other programs created by Apple Computer.
- Good knowledge and preparation to the understanding and use of the Eurocodes, Euro standards.
- Excellent knowledge of the European Regulation for Construction products (CPR 305/2011) and national and European harmonized standards.
- Good knowledge of CLP (Classification, Labeling and Packaging)

ARTISTIC SKILLS AND COMPETENCE

- Clarinet
- Photography
- Singing
- Creations of stones, crystal and metal jewelry

OTHER SKILLS AND COMPETENCES

- 2016 to the present Member of the Board of the Cassa Rurale (Bank) Don Lorenzo Guetti

DRIVING LICENSE

Car driving licence (category B)

ADDITIONAL INFORMATION

Great curiosity and desire to learn, discuss and continually get involved.



Europass Curriculum Vitae

Personal information

Surname(s) / First name(s) **Morini Gian Luca**
Address(es) 82 Via Colombarola, 44100, Ferrara, Italy
Telephone(s) +39-051-2093287
Fax(es) +39-051-2093296
E-mail gianluca.morini3@unibo.it
Nationality Italian
Date of birth 15/03/1967
Gender Male

Work experience

Dates	From December 2012 till today
Occupation or position held	Full Professor (Applied Thermal Engineering SSD ING-IND/10)
Main activities and responsibilities	Head of the Thermal Laboratory of DIN. The DIN Thermal Laboratory houses facilities for experimental research on microscale heat transfer, external and internal single-phase forced convection, thermography, thermal plants, air conditioning systems, thermophysical properties measurements (thermal conductivity, thermal diffusivity, vapor permeability), compression heat pumps and thermometry; energy efficiency in Buildings. Teaching activities on Thermal Plants and Air Conditioning, Energy Systems, Energy Management, Solar and Geothermal Energy Director of Master in Energy Management (UNIBO)
Occupation or position held	Associate Professor (Design of HVAC Systems SSD ING-IND/10)
Main activities and responsibilities	Head of the Thermal Laboratory of the DIN. The DIN Thermal Laboratory houses facilities for experimental research on microscale heat transfer, external and internal single-phase forced convection, thermography, thermal plants, air conditioning systems, thermophysical properties measurements (thermal conductivity, vapor permeability), compression heat pumps and thermometry. Teaching activities on Thermal Plants and Air Conditioning, Energy Systems, Energy Management, Solar and Geothermal Energy.
Name and address of employer	DIN, ALMA MATER STUDIORUM UNIVERSITA' DI BOLOGNA, Viale Risorgimento 2, 40136 Bologna, Italy
Type of business or sector	Research and Teaching in Applied Thermal Engineering, Thermal Plants, Energy and Buildings and Microfluidics
Dates	From November 1996 to September 2002
Occupation or position held	Assistant Professor (Applied Thermal Engineering SSD I05A)
Main activities and responsibilities	Research on steady and unsteady laminar convective heat transfer through non-conventional channels, Microfluidics and heat transfer through micro-channels for single-phase flows in laminar regime. Optimization of thermal power plants. Teaching activities on Thermodynamics and Engineering Heat Transfer
Name and address of employer	DIPARTIMENTO DI INGEGNERIA, UNIVERSITA' DEGLI STUDI DI FERRARA, Via Saragat 1, 44100, Ferrara, Italy
Type of business or sector	Research and Teaching in Applied Thermal Engineering, Thermodynamics, HVAC systems, Energy systems, Renewable energy, Energy and Buildings

Education and training

Dates 2-6/9/2001
 Title of qualification awarded Participation's Certificate
 Principal subjects/occupational skills covered Summer School on "Computational Fluid-Dynamics and Heat Transfer"
 Name and type of organisation providing education and training UIT – Unione Italiana di Termofluidodinamica
 Level in national or international classification University

Dates 10-15/10/1999
 Title of qualification awarded Participation's Certificate
 Principal subjects/occupational skills covered Introduction to Measurements Techniques
 Name and type of organisation providing education and training VKI- Von Karman Institute – Bruxelles
 Level in national or international classification University

Dates 2-6/9/1999
 Title of qualification awarded Participation's Certificate
 Principal subjects/occupational skills covered Summer School on "Two Phase Fluid-Dynamics and Heat Transfer"
 Name and type of organisation providing education and training UIT – Unione Italiana di Termofluidodinamica
 Level in national or international classification University

Dates 1-5/9/1997
 Title of qualification awarded Participation's Certificate
 Principal subjects/occupational skills covered Summer School on "Single Phase Fluid-Dynamics and Heat Transfer"
 Name and type of organisation providing education and training UIT – Unione Italiana di Termofluidodinamica
 Level in national or international classification University

Dates 01-05/03/1997
 Title of qualification awarded Participation's Certificate
 Principal subjects/occupational skills covered Modelling and Computation of Multiphase Flows
 Name and type of organisation providing education and training ETH Polytechnic of Zurich
 Level in national or international classification University

Dates From November 1992 to October 1995
 Title of qualification awarded Ph Degree in Nuclear Engineering
 Principal subjects/occupational skills covered Thermal Aspects in Nuclear Power Plants
 Name and type of organisation providing education and training University of Bologna
 Level in national or international classification University

Dates From November 1986 to March 1992
 Title of qualification awarded Degree in Nuclear Engineering

Principal subjects/occupational skills covered
 Nuclear Engineering

Name and type of organisation providing education and training
 University of Bologna

Level in national or international classification
 University

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s) **English, French**

Self-assessment
European level ()*

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	C1	Proficient user	B1	Independent user	B1	Independent user	C1	Proficient user
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	B2	Independent user

(*) *Common European Framework of Reference for Languages*

Social skills and competences Working in groups of people having different skills and competences

Organizational skills and competences Coordination of people, Laboratory organization, Project Management, Organization and Coordination of Master Courses

Technical skills and competences Experience in fluid-dynamics and heat transfer, Heat Exchangers, Solar Energy, Thermal plants, Heat Pumps, Cooling Systems, Microfluidics

Computer skills and competences Personal Computer's use (word processor, worksheet, etc.).
 FORTRAN Language; Use of Commercial Finite Elements and Control Volumes Codes for thermal analysis (Comsol, Fluent, CFX).

Artistic skills and competences Interest in Music and Literature

Driving licence Italian Driving Licence Type B (for cars) and Type A

Additional information

Scientific Societies (Membership)

- Member, ATI (Association of Italian Thermotechnic)
- Member, UIT (Italian Union of Thermofluid-dynamics), Secretary of the Steering Committee
- Member, AICARR (Association of Italian Air Conditioning Systems and Refrigeration)

Scientific Societies (Commitments)

- Italian delegate of the EURO THERM Committee 2006- till today
Regional Secretary, ATI, (Association of Italian Thermal Engineering) 2005- till today
- Scientific Committee Member, SHF (Société Hydrotechnique de France): 2009 – till today
 - Scientific Committee Member, ICHMT (International Center of Heat and Mass Transfer): 2009 – till today
 - Member of Assembly of the World Conference (AWC) on Experimental Heat Transfer, Fluid Mechanics, and Thermodynamics: 2009 – till today

Journals (Editorial Commitments)

Frequent reviewer of articles for:

ASME Journal of Heat Transfer, International Journal of Thermal Sciences, International Journal of Heat and Mass Transfer, International Communications in Heat and Mass Transfer, Applied Thermal Engineering, Journal of Micromechanics and Microengineering, Microfluidics and Nanofluidics, Microscale Thermophysical Engineering, Heat Transfer Engineering, Journal of Thermophysics and Heat Transfer, Heat and Mass Transfer, International Journal of Heat and Fluid Flow, Numerical Heat Transfer, Meccanica, International Journal of Heat and Technology, and for many international conferences.

Editorial board

International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena

Guest Editor (special issues related to Microfluidics):

Energy Procedia
Experimental Heat Transfer
Microfluidics & Nanofluidics
Microsystems Technologies
Biomicrofluidics
L'Houille Blanche

International Research Projects

Participation as partner to the following European Projects:

7FP-ITN-GASMEMS (2008-2012)
7FP-PEOPLE-IRSES-R-D-SBES-R (2011-2015)
FP7-NMP-ENV-ENERGY-ICT-EeB: HERB (2012-2016)

Bibliometric indicator

h-factor (Scopus, March. 2014): 16

Conferences (Chairs, Scientific Committees, Invited papers, etc.) & Seminars

Chairs

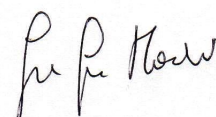
European Conference on Microfluidics (mFlu): Bologna (2008), Toulouse (2010) and Heidelberg (2012)

Scientific Committees

ICHMT International Symposium "CONV: Convective Heat and Mass Transfer in Sustainable Energy
EXHTF World Congress on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics
ATI Conference 2013

Session organizer

Session: Gas Flow, ASME International Conference on Nanochannels, Microchannels and Minichannels, Toronto (2005), Limerick (2006), Puebla (2007), Damstadt (2008), Pohang (2009), Montreal (2010), Edmonton (2011), Puerto Rico (2012) .



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Federica Morandi

Curriculum Vitae

Personal Information

Name Federica
Surname Morandi
Born in Bologna, April 19th 1987
Address Via Ugo Bassi 15, 40121 Bologna (Italy)
Mobile +39 340 8249249
E-mail federica.morandi6@unibo.it
Skype federica.morandi87

Network



<https://it.linkedin.com/pub/federica-morandi/a5/a27/b33>



http://www.researchgate.net/profile/Federica_Morandi3

Education

- 2016 – actual **Research Fellow**, *DIN*, University of Bologna.
Experimental analysis of flanking transmission on innovative junction systems for CLT panels. Tutor: Dr. L. Barbaresi.
- 2013 – 2015 **PhD in Applied Acoustics**, *DIENCA*, University of Bologna.
Title of the thesis: Theoretical and experimental investigation into stop-band properties of sonic crystals. Tutor: Prof. M. Garai.
- 2014 **Visiting PhD student**, *MCT*, Open University, Milton Keynes (UK).
Experimental measurements on sonic crystals and implementation of semi-analytical tools related to sound propagation in periodic media. Tutor: Dr. S. Taherzadeh, Prof. K. Attenborough.
- 2012 **MSc in Building and Architectural Engineering (European std 4/S)**, University of Bologna.
Thesis title: Acoustical characterization and study of sound radiation from stages: a comparison between the theatres of Cesenatico and Longiano. Grade: 110/110 with honours.

Via Ugo Bassi, 15 – 40121 Bologna

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Research Projects

- 2015-2016 **Flanking transmission in timber structures**, University of Bologna.
Experimental analysis aimed at characterising the vibration reduction indices for a variety of junctions between CLT panels. Panels were provided by seven CLT manufacturers, and the tests measured the influence of the kind and number of screws, kind and number of hold-down and angle brackets and tested the effectiveness of several resilient interlayers to be used at the wall-floor junction. The research project, funded by Rothoblaas, led to the drafting of an abacus of K_{ij} that will help the acoustic designers to comply to the acoustic requirements at the design stage.
- 2014-2015 **Sound insulation properties of CLT floors**, University of Bologna.
Analysis of the acoustic behaviour of CLT floors with different layers. This research consisted in the investigation of the acoustic insulation provided by a CLT floor in terms of impact sound insulation and airborne sound insulation. 15 different configurations were tested, including wet/dry substrates, polyurethane or fibrous resilient layer, wet/dry screed and false ceiling fixed with hangers, timber studs or omega profiles. The research was funded by Tophaus.
- 2013-2016 **Sonic crystals**, University of Bologna, Open University (UK).
Analysis of the acoustic behaviour of sound propagation through a periodic arrangement of scatterers. Theoretical and numerical formulation and semi-analytical coding, measurement with different boundary conditions and characterisation of sonic crystals using the EN 1793 standards, both for diffuse and normal incidence field, to test and compare the performance of sonic crystals with respect to standard, heavy-weight noise barriers.
- 2013-2014 **Acoustical characterisation of Italian opera houses**, University of Bologna.
Measurement campaign carried out on 12 Italian opera houses, aimed at determining the peculiar acoustic quality of such extraordinary places. Monaural and binaural measurements were performed at each seat, allowing to collect an important database of impulse responses. Simulation of the sound field inside the theatres to hypothesise interventions or to emulate how the theatre would sound before major renovations, for instance the introduction of the orchestra pit. Analysis of the contribution of the sound radiation from timber stages and on its relevance for the public and the musicians. Vibro-acoustic analysis of original timber stages compared to stages in which the timber floor was substituted with a concrete slab: experimental evidences and subjective judgment from the public and the performers. The project was financed by CIRI - Edilizia e Costruzioni, POR-FESR 2007-2013.

Technical Competences

PostDoc in Applied Acoustics, University of Bologna.

Conception and development of research projects. Detailed achievements:

- Sustainability assessment of products (EPD)
- Technical and organisational management of measurement campaigns
- Analysis of the vibro-acoustic behaviour of resilient interlayers through standard compression tests with different friction conditions (steel, hard wood, soft wood, vaseline)
- Analysis of the vibro-acoustic behaviour of resilient interlayers using the DMA in a range of temperature
- Analysis of the radiation efficiency of CLT plates

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PhD in Applied Acoustics, University of Bologna.

Measurement and processing of acoustic metrics. Critical analysis of data and insight into theoretical formulations. Collaboration in the management of outsourced research project. Detailed achievements:

- Technical and organisational management of measurement campaigns
- Acoustical characterisation of materials through laboratory measurements (absorption coefficient, dynamic stiffness, flow resistivity)
- FE calculations for acoustic scattering problems
- Laboratory measurement of sound insulation
- Analytical coding for scattering problems
- Advanced acoustic measurements and processing
- On site measurements for the determination of the passive acoustic requirements
- Outdoor acoustic measurements for noise barriers
- Psychoacoustic tests
- Design of listening test chambers

MSc in Building and Architectural Engineering, University of Bologna.

Acoustic measurements and data analysis. Detailed achievements:

- Architectural surveys and CAD processing
- Standard acoustic and vibration measurements and data processing
- Extraction and analysis of room criteria
- Numerical simulations for room acoustics

Teaching activity

- 2016-2017 RothoSchool courses on topics related to comfort and acoustics in timber buildings.
- 2017 Speaker at the International Symposium on Advanced Research in Timber Construction: Acoustic Quality, Environment and Safety, Bolzano.
- 2016 Speaker at the seminar “Acoustic design of timber buildings: theoretical models and technical solutions”, Cortaccia (BZ).
- 2016 Speaker at the seminar “Noise barriers: regulation, technological innovation and testing”, Bologna.
- 2016 RothoSchool courses to the Master “Ingenieria de la madera estructural” from Lugo (ES).
- 2016 Co-chair at the AIA National Conference.
- 2013 Speaker at the seminar “New approaches to acoustic and sound”, Vrtojba, (SLO)
- 2013 Speaker at the seminar “Architectural Acoustics”, Bologna.

Awards and certifications

- 2015 Co-winner of the 1st edition of the UniBO LaunchPad program with the project *ne.mo*, relative to the acoustic monitoring of crops to prevent pests damage.
- 2015 Best paper award at the 6^a International Conference on Building Physics (IBPC).
- 2012 National professional practice examination - Civil and Environmental Engineering.

Computer skills

Advanced AutoCAD, Photoshop, L^AT_EX, Office (Word, Excel, Power Point), Odeon, Insul
Intermediate Matlab, COMSOL Multiphysics, InDesign, Rhinoceros, Grasshopper

Via Ugo Bassi, 15 – 40121 Bologna

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Basic Illustrator

Languages

Italian **Mothertongue**
English **Excellent**
Spanish **Good**

Soft skills

I am a motivated person at work, determined to achieve the goals and at the constant search for new stimuli. Working in a very close-knit research environment I developed a strong predisposition to teamwork and a remarkable dynamism in following several projects with different tasks and responsibilities.

Conferences

- 2016 International Congress on Acoustics, Buenos Aires, September 2016.
- 2016 World Conference on Timber Engineering, Vienna, August 2016.
- 2016 AIA National Conference, Alghero, May 2016.
- 2015 Auditorium Acoustics Conference, Paris, October 2015.
- 2015 Euronoise Conference, Maastricht, June 2015.
- 2014 IOA Conference, Birmingham, October 2014.
- 2014 AIA National Conference, Pisa, June 2014.
- 2013 Internoise Conference, Innsbruck, September 2013.
- 2013 AIA-DAGA Conference, Meran, March 2013.
- 2012 AIA National Conference, Rome, July 2012.

Interests

Passionate in music and ski touring.

I authorise the use of my personal data in compliance with Legislative Decree 196/03.



Paolo Veggetti

Plant Designer in NZEB (Near To Zero Energy Buildings)

In 1996 graduates in Engineering at Bologna University. Then he obtains qualifications and competences in plant design on national and international scale. Since 1997 he practices his career as plant designer, collaborating with different Engineering and Architecture firms.

He pays great attention to architectural details, tireless research in new materials and new technologies, he has always had great passion for wooden building and natural materials: this is Paolo Veggetti's habitual working field.

In 2010 founds the study E2Project, where it coordinates a team of experienced Technicians in NZEB.

- Plant design system in NZEB in masonry and wooden masonry, different standard certificates (CasaClima, Passiv Haus Institut),
- Energy consulting for new building units and requalification,
- Energy audits,
- Instrumental survey (blower door, data logger, thermography),
- Solar analysis and shading,
- Thermal analysis in dynamic system,
- Analysis of construction joints thermal bridges and finished parts.

TEACHING/TRAINING ACTIVITIES

From 2009 he participates as chairman or teacher in various conferences and training courses on "System Planning in low energy consumption buildings" for various institutions as:

Edicom Edizioni: publisher specialized in sustainable architecture and green building, which promotes environmentally friendly culture, paying attention to high-quality building www.edicomedizioni.com

CasaClima: public institution which deals with Energy Performance and Environmental Certificate (more than 7000 certificated buildings all over Italy) www.agenziacasaclima.it

University of Florence Architecture Department Maser Abita www.centroabita.unifi.it

AESS Energy and Sustainable Development Agency www.aess-modena.it

ARCA Technological district of Trento: certification system established only for wooden structure buildings www.arcacert.com

LIGNIUS Italian National Association certified wooden buildings www.lignius.it


Cultura&Ambiente Training and Consulting Company www.culturaeambiente.it





Paolo Veggetti

Plant Designer in NZEB (Near To Zero Energy Buildings)


NEW WOODEN BUILDINGS


<p>Apartment building "Le sfumature" 2017 8 property units Bologna Under construction</p>	<p><i>Developer/customer</i> Impresa Fantoni S.p.A.</p>	<p><i>Energy standard</i> CasaClima Gold nature - ARCA</p>	
	<p>Energy Advice Plant design Works supervision</p>		


<p>Residenza Fossati - 2016 Sozzago (Novara)</p>	<p><i>Developer/customer</i> Geom. Luca Fossati Private residence</p>	<p><i>Energy standard</i> CasaClima Gold Nature</p>	
	<p>Energy Advice Plant design</p>		


<p>Le tre cime - 2017 Castelnuovo Garfagnana (Lucca) Under construction</p>	<p><i>Developer/customer</i> Aurelio Bertagni Private residence</p>	<p><i>Energy standard</i> CasaClima Gold</p>	
	<p>Energy Advice Plant design</p>		

NEW WOODEN BUILDINGS

<p>Pachamama - 2016 2 property units Roncofreddo (Forli)</p>	<p><i>Developer/customer</i> Pachamama s.a.s Private residence</p>	<p><i>Energy standard</i> CasaClima Gold nature</p>	
	<p>Energy Advice Plant design Works supervision</p>		


<p>Bolzano - 2013</p>	<p><i>Developer/customer</i> Private residence</p>	<p><i>Energy standard</i> CasaClima A</p>	
	<p>Energy Advice Plant design New floor made of wood (upper elevation)</p>		


<p>Casa Marchesini - 2011 2 property units Budrio (Bologna)</p>	<p><i>Developer/customer</i> Private residence</p>	<p><i>Energy standard</i> CasaClima A</p>	
	<p>Energy Advice Plant design Works supervision.</p>		


<p>Casetta - 2011 6 property units Loiano (Bologna)</p>	<p><i>Developer/customer</i> Maestrami s.r.l.</p>	<p><i>Energy standard</i> Classe A Emilia Romagna</p>	
	<p>Energy Advice Plant design</p>		

NEW BUILDINGS

<p>Apartment building Helios - 2014 14 property units Vignola (Modena)</p>	<p><i>Developer/customer</i> Sogei Costruzioni srl</p>	<p><i>Energy standard</i> Classe A</p>	
	<p>Energy Advice Plant design</p>		

<p>Apartment building Life - 2014 9 property units Rimini</p>	<p><i>Developer/customer</i> Lifestyle s.r.l.</p>	<p><i>Energy standard</i> Classe A Emilia Romagna</p>	
	<p>Energy Advice Plant design Works supervision <i>Bio-construction</i></p>		




<p>Casa Magnanelli – 2011 Montescudo (Rimini)</p>	<p><i>Developer/customer</i> Roberto Magnanelli Private residence</p>	<p><i>Energy standard</i> CasaClima Gold Nature PEh = 1.46 kWh/mqa</p>	<p>CasaClima award 2011</p>
	<p>Energy Advice Plant design Works supervision <i>The excellence of the building envelope and the many solar contribution allow to compensate for the thermal demand of the 600 square meters of building with a small pellet boiler of 16 kW (which, even during the snowy winter 2012, has worked only for two months). On the other hand, the important mass ensures summer comfort in the absence of cooling plants. Such a marked ecological footprint of the building-plant system (completed by the photovoltaic system on the roof), gave access to the Nature protocol of ClimaHaus, with a Gold Class, making Magnanelli House a unique example of its kind: the first and unique ClimaHaus 1 kWh / sqm</i></p>		

<p>Apartment building Abitalto - 2009 44 property units Trebbio di Reno (Bologna)</p>	<p><i>Developer/customer</i> GeCo s.r.l</p>	<p><i>Energy standard</i> Classe A</p>	
	<p>Energy Advice Plant design Works supervision</p>		

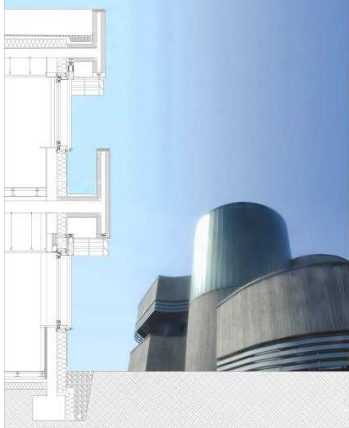
PROPERTY RENOVATIONS


<p>Via Don Guanella - 2016 12 property units Bologna</p>	<p><i>Developer/customer</i></p> <p>Fondazione del Monte di Bologna e Ravenna</p>	<p><i>Energy standard</i></p> <p>Classe A</p>	
	<p>Energy Audit Energy Advice Works supervision <i>Retrofit of the building envelope (Thermal insulation and windows frames)</i></p>		
<p>Private residence - 2017 3 property units Bergamo Under renovation</p>	<p><i>Developer/customer</i></p> <p>Private residence</p>	<p><i>Energy standard</i></p>	
	<p>Energy Advice Plant design</p>		
<p>Via Triacchini - 2016 Bologna</p>	<p><i>Developer/customer</i></p> <p>Private residence</p>	<p><i>Energy standard</i></p> <p>Classe A4</p>	
	<p>Energy Advice Plant design</p>		
<p>Villa Gloria - 2016 3 property units Sasso Marconi (Bologna)</p>	<p><i>Developer/customer</i></p> <p>Private residence</p>	<p><i>Energy standard</i></p> <p>CasaClima A</p>	
	<p>Energy Advice Plant design Works supervision</p>		


PROPERTY RENOVATIONS

<p>Apartment building Monticelli Quattro - 2015 9 property units Bologna</p>	<p><i>Developer/customer</i> Impresa Fortini s.r.l.</p>	<p><i>Energy standard</i> CasaClima A</p>	
 <p>monticelli quattro abitare nella storia ...con la qualità del futuro</p> <p>Energy Project Engineering</p> <p>Impresa Fortini spa - Impresa Neligari srl</p>	<p>Energy Advice Plant design Works supervision</p>		
<p><i>nome, ubicazione, anno</i> Study centre Villa Balestra 2013 Roma</p>	<p><i>Developer/customer</i> Cultural Association Fontana Nuova</p>	<p><i>Energy standard</i></p>	
	<p>Energy Audit Plant design Works supervision New thermal power station</p>		
<p>Oratorio di San Filippo Neri 2013 Bologna</p>	<p><i>Developer/customer</i> Fondazione del Monte conference room/concert hall</p>	<p><i>Energy standard</i></p>	
	<p>Energy Audit Plant design Works supervision</p>		

PROPERTY RENOVATIONS

Unicredit Bank, branch - 2012 Reggio Emilia	<i>Developer/customer</i> Unicredit Bank/ Marchi S.p.A	<i>Energy standard</i> Passivhaus	
	Executive design		

Villa Dina - 2012 Vado (Bologna)	<i>Developer/customer</i> Piero Fortini Private residence	<i>Energy standard</i> Classe A	
	Energy Advice Plant design Works supervision		

Apartment building Galleria del Toro - 2010 100 property units Bologna	<i>Developer/customer</i>	<i>Energy standard</i>	
	Energy audit Plant design Works supervision New thermal power station		