

## Curriculum Vitæ et Studiorum Dr. Giacomo Goli

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Name: Giacomo Goli  
 Date of birth: December 22<sup>nd</sup> , 1973  
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### **Formation**

- 1997 6 months stage at the Ecole Nationale Supérieure d'Arts et Métiers (ENSAM) Cluny (FR) about the visual grading of wooden surface processed by shaping
- 1999 Degree in "Forestry" with a final work concerning the wear of the belt-saw blades and the improvement of their service life by new techniques. Final exam result 110/110
- 2000 4 days course for the use of NC machines in CMS, an Italian firm of NC machines, in the same year beginning of the PhD at the "Università di Firenze" and at the "Ecole Nationale Supérieure d'Arts et Métiers (ENSAM)" in Cluny, curriculum "Wood technology"
- 2001 Follows a course "Environmental and security aspects in the use of solvents and glues in the centre "Treviso tecnologia", follows a course for "Sound Engineer" at the "Centro sperimentale di cinematografia e delle arti sceniche" in Bologna
- 2002 With people of the ENSAM have a learning cycle concerning the NC machines, to understand the mechanics and programming principles
- 2003 Follows a course of "Optimisation with genetic algorithms and applications (in fluids and solids mechanics, biomechanics and industry)" at the ENSAM Paris, follows a formation day with Brüel e Kjær for the use of the Pulse system. Discuss the PhD getting the double title from the Università degli Studi di Firenze and the Ecole Nationale Supérieure d'Arts et Métiers with a thesis titled: Wooden surface obtained by shaping: study of the formation mechanisms and of the relative defects

### **Didactic activity**

- 2000/1 As "tutor" of the "diploma universitario in tecnologie del legno" of the Università degli Studi di Firenze assists the curses of "Computer Aided Drawing", "Computer Aided Machining" and "Industrial automation" of the proff. Marco Vieri, Felice Ragazzo, Giovanni Fara
- 2002 Follows two final projects, one concerning the final quality of the shaped surfaces of exotic species not well knew in Italy, and the other about a system for the wear measurement in the tools teeth
- 2003 Give two seminars at the Università di Firenze titled: "Surface formation in wood processing by turning tool" and "Drawing with AutoCAD" at the "Corso di Laurea triennale in Tecnologie del Legno" at the "Università degli Studi di Firenze".
- 2004 Give a course titled "Wood processing and surface quality" (20 hours) at the Università degli Studi di Firenze.

### **Scientific activity**

Conducted mainly in the sector of wood processing and focused on the wood mechanical behaviour while processing and on the surface quality processing at different grain angles.

### **Spoken languages**

English good knowledge, French advanced knowledge

### **OS**

Windows, Linux

### **Programs and languages knew**

LabView, AutoCad, LaTeX, html, Office, Openoffice, Photoshop, Gimp, Pulse, TeXnicCenter

### **Periods in a foreign country**

1 year and 6 months in 6 months periods in France at the ENSAM Cluny

### **Conferences**

14<sup>th</sup> International Wood Machining Seminar; Paris-Epinal-Cluny (FR) 12-19/09/1999.

15<sup>th</sup> International Wood Machining Seminar; Los Angeles (USA) 30/07-01/08/2001.

Wood Structure and Properties 2002; Brezno (Slovakia) 1-3/9/2002.

Wood Science and engineering in the third millennium; Brasov (Romania) 20-22/11/2002.

16<sup>th</sup> International Wood Machining Seminar; Matsue (Japan) 24-30/08/2003.

### **Publications**

*Goli G., Negri M., Marchal R., Larricq. P.*; The machining process of the european douglas fir: The surface quality; *ICFWST'97 Proceedings vol. II pag. 473 – Belgrado (Serbia) 29 set. – 3 ott. 1997.*

*Goli. G., Negri M.*; Qualificazione del legname trentino – Seconde lavorazioni: qualità delle superfici lavorate del legno di Abete Rosso; *Consiglio Nazionale delle Ricerche, Istituto per la Tecnologia del Legno.*

*Bonamini G, Collet R., Del Taglia A., Fibbi F., Goli G., Remorini R., Uzielli L.*; Equipement and test method for measuring cutting forces and wear of cutting edges in saw teeth for wood, improved with new HVOF coatings; *IWMS 14 Proceedings, vol. I pag. 453 – Paris, Epinal, Cluny (France) 12,19 sett. 1999.*

*Negri M., Goli G.*; Qualità delle superfici lavorate del legno di Abete rosso e di Douglasia valutata con una opportuna classificazione visuale; *Legno Cellulosa Carta, VI, 1,10-21*

*Goli G., Larricq P., Marchal R., Negri M., J. P. Costes*; Surface quality: comparison among visual grading and 3D roughness measuments; *IWMS 15 Proceedings, pag. 459 – Los Angeles (USA) 30/07 – 01/08. 2001.*

*Goli G., Marchal R., Negri M.*; Industrial machining of Douglas fir with various tools and materials; *IWMS 15 Proceedings, pag. 173 – Los Angeles (USA) 30/07 – 01/08. 2001.*

Goli G., Bleron L., Marchal R., Uzielli L., Negri M.; Surfaces Formation and Quality, in Moulding Wood at Various Grain Angles. Initial Results with Douglas Fir and Oak; *Wood Structure and Properties 2002 Proceedings*, pag. 1/9 - 3/9. 2002.

Goli G., Bleron L., Marchal R., Uzielli L., Negri M.; Measurement of Cutting Forces, in Moulding Wood at Various Grain Angles. Initial Results With Douglas Fir; *Wood Science and engineering in the third millennium Proceedings*, pag. 123 - Brasov (Romania) 20/11 - 22/11. 2002.

Svoradova M., Bléron L. Marchal R., Goli G. Cottin. F.; Influence of Wood Extractibles on the Gluing Quality in Oak LVL; *Wood Science and engineering in the third millennium Proceedings*, pag. 370 - Brasov (Romania) 20/11 - 22/11. 2002.

Goli G. Marchal R., Uzielli L., Negri M.; Measuring cutting forces in routing wood at various grain angles. Study and comparison between up- and down-milling techniques, processing douglas fir and oak; *IWMS 16 Proceedings*, pag. 127 – Matsue (Japan) 24/08 – 30/08. 2003.

Chala A., Chekour L., Nouveau C., Djouadi A., Goli G.; Duplex Treatment based on the combination of ion nitriding and pva process: application in wood machining; *IWMS 16 Proceedings*, pag. 471 – Matsue (Japan) 24/08 – 30/08. 2003.

Pinheiro D., Goli G., Viera M. T.; Cutting tools edge evolution of coated and uncoated tungsten carbide inserts; *IWMS 16 out of Proceedings – Matsue (Japan) 24/08 – 30/08. 2003.*

Goli G., Marchal R., Uzielli L.; Generalità su irregolarità e difetti; *Xylon*, Ottobre-Novembre 2003 n°8 pag 72-80.

Goli G.; Superficie del legno ottenuta mediante fresatura: studio delle meccaniche di formazione e dei relativi difetti - Surfaces du bois obtenues par defonçage: étude de la mécanique de formation et des défauts induits; *Tesi di dottorato - Thèse doctorale; Università di Firenze - Ecole Nationale Supérieure d'Arts et Métiers Cluny, discussa - soutenue 26/11/2004.*

Goli G., Marchal R., Uzielli L.; Classificazione qualitativa dei difetti con metodo visuale; *Xylon*, Marzo 2004 n°2 pag 44-48.

Goli G., Marchal R., Uzielli L.; Meccaniche di Formazione delle superfici; *di prossima pubblicazione sulla rivista Xylon.*

Goli G., Marchal R., Uzielli L.; Classification of wood surface defects according to their mechanical formation during machining; *di prossima presentazione al 2<sup>nd</sup> International Symposium on Wood Machining che si terrà a Vienna nel periodo 05-07/07/2004.*

Uzielli L., Goli G., Formation and quality of wood surfaces processed by turning tool, a global approach; *di prossima presentazione al 2<sup>nd</sup> International Symposium on Wood Machining che si terrà a Vienna nel periodo 05-07/07/2004.*