Curriculum Vitae

Family Name: Tiziani First Name: Alberto. Date of Birth: 12/04/1943 Nationality: Italian

Education/ Professional Studies:

Institution: University of Padova

Date: 1970

Degree/ Diploma: Graduation in Chemical Engineering

Language skills : (From 1 (notions) to 5 (excellent) for competence) (*=mother tongue)

Language	Speaking	Reading	Writing
English	3	4	3
French	4	4	3

Membership of Professional bodies:

- AIM – Associazione Italiana di Metrallurgia
- ASSOFOND – Federazione nazionale fonderie
- CNR – Consiglio nazionale delle ricerche
- CTS – Comitato tecnico saldatura

Other skills:

Alberto Tiziani is full professor of Metallic Materials at the Engineering Faculty of the University of Padova (site of Vicenza). He is teacher at the "Surface Treatment School and at the PhD of Metallurgical Engineering at the University of Padova.

Main research topics (condensed into about 200 scientific papers):

- Foundry of Ferrous and non-ferrous alloys,
- conventional and vacuum heat treatments of high alloyed and stainless steels;
- surface treatments with innovative techniques;
- sintering;
- biomaterials.

He is vice-president of the AIM-Assofond Centre for the Foundry

He is member of the technical Committee "Metal Powders" and "Biomaterials" of A.I.M. as well as of the PASEC working group "Advanced high energy welding processes".

He is Director of the Dept. of Management and Engineering of Padova University.

Research cooperator of CNR-ICTIMA at Padova, he partecipates at the P.F. CNR Special Materials for Advanced Technologies II.

He was responsible of various CNR research projects and of Working Units inside the MURST ex-40% research contracts.

He was and he is, actually, responsible of several research contract between the Dept. of Management and Enginerring and industrial Companies, such as Teksid, Pangborn Europe, Trafimet, Vetrl, Morellato

Present Position within the organisation:

Full Professor

Head of Department

Publications (most relevant in the last five years):

1. P. Ferro H. Porzner, A. Tiziani, F. Bonollo. (2006). The influence of phase transformations on residual stresses induced by the welding process- 3D and 2D numerical models. *Modelling and Simulation in Materials Science and Engineering*, vol. 14, pp. 117-136 ISSN: 0965-0393.
2. F. Bonollo, A. Tiziani, P. Ferro. (2005). Evoluzione microstrutturale di acciai duplex e superduplex in relazione ai processi di saldatura. *Metallurgia Italiana*. vol. 2, pp. 27-38 ISSN: 0026-0843.
3. P. Ferro, F. Bonollo, A. Tiziani, (2005). Laser welding of copper-nickel alloys: a numerical and experimental analysis. *Science and Technology of Welding and Joining*, vol. 5, pp. 299-310 ISSN:1362-1718
4. F. Piasentini, F. Bonollo, A. Pennetta, A. Tiziani, (2004). The use of thermal analysis for process control in cast iron foundry. *Industria Fusoria*, vol. 1, pp. 24-31 Assofond, Trezzano sul Naviglio (MI).
5. P. Ferro, F. Bonollo, A. Tiziani, I. Mabosco. (2004). A review of welding process numerical simulation: methods and experimental validations. 2nd International Conference & Exhibition on New Developments in Metallurgical Process Technology. Riva del Garda - Italy, 19-21 September 2004.
6. F. Bonollo, P. Ferro, A. Tiziani (2003). Analisi sperimentale della saldatura laser di materiali compositi a matrice di alluminio con rinforzo discontinuo. *Metallurgia Italiana*, vol. 11, pp. 31-39 ISSN: 0026-0843.

7. A. Tiziani, F. Bonollo, A. Zambon., P. Ferro (2003). Evoluzione microstrutturale e verifiche tensionali in estrusi saldati in lega di alluminio AA 6005. *Metallurgia Italiana*, vol. 10, pp. 25-31 ISSN: 0026-0843.
8. A. Tiziani, F. Bonollo, R. Tovo, M. Volpone (2003). Acciai inossidabili superaustenitici: microstruttura e resistenza a fatica di giunzioni saldate. *Rivista Italiana della Saldatura*, vol. 1, pp. 55-63 ISSN: 0035-6794.
9. P. Ferro, F. Bonollo, A. Tiziani (2002). Analisi numerica e sperimentale del processo di saldatura laser di leghe Cu-Ni e Cu. *Lamiera*, vol. 10, pp. 204-218 ISSN: 0391-5891.
10. A. Tiziani, F. Bonollo, M. Penasa, (2002). CO_2 Laser welding of Aluminum matrix composites. *International Journal of Materials & Product Technology*, vol. 17, pp. 291-302 ISSN: 0268-1900.
11. G. Straffelini, A. Molinari, F. Bonollo, Tiziani A. Effects of aging on impact behaviour of different stainless steels weldments. Materials Science and Technology, 17 (2001) 1391-1397

Tiziani A., Bonollo F., Giatin D., Gregori A. Produzione e caratterizzazione di composti a matrice il lega di alluminio rinforzati con schiuma ceramica. Metallurgia Italiana, 3 (2001) 17-22