

GENNARO TAMPONE

CURRICULUM VITAE

Proposed role in the project: Structural Engineer, Expert in Timber Structures Strengthening

Family name: Tampono

First names: Gennaro Francesco

Date of birth: 1936, 10th August

Nationality: Italian

Civil status: single

Membership of professional bodies: “Ordine Architetti Provincia di Firenze” (n° 830);

Education:

Institution [Date from - Date to]	Degrees obtained:
University of Florence, Italy (1963 – 1969)	Doctorate in Architecture. Five-year course and final dissertation
University of Bari, Italy (1954 – 1961)	Doctorate in Civil Engineering. Five-year course and final dissertation

Language skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
Italian	mother tongue		
English	1	1	1
French	1	1	1
German	3	4	4

QUALIFICATIONS:

- **PRESIDENT of ICOMOS International Scientific Wood International Committee**
- **Member of ICOMOS (since 1978), of Int. Scient. Wood International Committee and of ICOMOS ISCARSAH (Historical Structures)**
- Member of **U.N.I.** (Ente Nazionale Italiano di Unificazione);
- **President of the Collegio degli Ingegneri della Toscana (founded in 1876);**
- Full Academician of the **Accademia delle Arti del Disegno** (founded by Giorgio Vasari and Michelangelo Buonarroti, XVI c.);
- Honorary Member of the **Associazione Nazionale Club UNESCO**, Italy;
- Member of **NORMAL Committee** (Normalizzazione dei Metodi di Studio della Pietra) of the Ministry of Cultural Property;
- **Member of the Committee “Legno” of U.N.I. concerned with the Timber Historical Structures;**

- **Coordinator of the Group on the “Degradations of the Ancient Timber Structures”;**
- Scientific Editor of the monthly scientific and technical Magazine of Engineering and Architecture, *Bollettino Ingegneri*, published in Florence by Collegio degli Ingegneri della Toscana, Florence, and disseminated in Italy and Overseas;
- Member of the Scientific Board of the bimestrial Magazine **Kermes. La Rivista del restauro**, Nardini ed., Florence;
- Member of the Scientific Board of the bimestrial Magazine **RECUPERO E CONSERVAZIONE**, De Lettera Ed., Milan. In this Magazine, Author of the Survey: ”Le strutture di Legno. Analisi e Conservazione”

Other skills: (e.g. Computer literacy etc) Windows, Word, Excel, Outlook, Outlook Express, Power Point, Photoshop, Microsoft Explorer

- **Present position**

- **Contract Professor** of Architectural Conservation, University of Florence (see below);
- **Scientific Director** of the II Level MASTER on “**Restauro e e Consolidamento delle Strutture Portanti degli Edifici Storici**”, University of Florence
- **Free lance Professional** in Engineering and Architecture, mainly Architectural Conservation, with a practice in Florence
- International Consultant for ICOMOS and UNESCO, Italian Ministry of Cultural Goods (Conservation of Timber Structures)

Key qualifications:

- **Structural Engineer and Conservation Architect**
- He is the **FOUNDER** of the systematic Discipline of the “Strengthening of the Ancient Timber Structures” and most renowned and esteemed Italian Expert in Conservation of Wooden Historic Structures. He is well known also at international level (UNESCO, ICCROM, ICOMOS).
- He has 48 years practical experience of which 35 as Engineer (in the last years, Chief Engineer) in the Italian Public Works Ministry (Ufficio del Genio Civile in Florence), later the Regione Toscana, charged of planning, design and work supervision of restoration of historic building.
- He undertook more than 50 projects of strengthening of wooden structures in important Italian monuments, listed at national and international level, undertaking deterioration survey, calculations, detailed structural design., insect prevention measures.
- Author of about 150 publications, 50 of which on the conservation and strengthening of wooden structures. Most of his professional works have been published.
- In the 80s, in Italy he was among the first promoters of the culture, appraisal, and conservation of the ancient timber structures, organizing and leading many national and international seminars and conferences, among those: two National Scientific Conferences (Florence, 1983, 1989) on these topics; the International Italy - Japan Meeting on the

Conservation of the Ancient Timber Structures, Florence, March 2000; the International Conference on the Conservation of the Historic Wooden Structures, Florence, February 2005.

- He is member of important national and international commissions charged with the setting of principles, guidelines, recommendations for the conservation of historic wooden structures, among them: Wood International Committee of ICOMOS; ISCARSAH (Historical Structures) of ICOMOS; Committee on Timber Structure of U.N.I. (Ente Nazionale di Unificazione), as Coordinator of the Group on the “Degradations of the Ancient Timber Structures”.
- **Co-author** of the Charter (approved by ICOMOS in Mexico City, 1999): *“Principles of Conservation of Historic Wooden Structures”*
- **Co-author**, with other Scholars, of the Document: <<Consiglio Nazionale delle Ricerche – DT 201 / 2005, 31 luglio 2005: “Studi preliminari finalizzati alla redazione di Istruzioni per interventi di consolidamento statico di strutture lignee mediante l’utilizzo di compositi fibro-rinforzati”>> (*Preliminary Studies for the Elaboration of Instructions for the Strengthening of Timber Structures by means of Fibre Reinforced Polymers*)

- **Invention patents**

Holder of **3 Invention Patents** for the conservative strengthening of the ancient timber Floors and Roofs; many applications made.

The Patents are:

-Tampone G., Campa L., 1987, Invention Patent n° 122590:

”Rinforzo e consolidamento di travi lignee con inserimento di lamine dall’estradosso o dall’intradosso”

-Tampone G., 1997, Invention Patent n° 1278708 del 27 11.1997:

“Struttura lignea composta da pannelli e da travetti distanziatori, sovrapposta al solaio ligneo esistente per aumentare resistenza e rigidità”

-Tampone G., 1997, Invention Patent n° 1278709 del 27 11.1997:

“Membratura lignea composta per il rinforzo o il consolidamento delle travi principali dei solai lignei esistenti, con intervento dall’estradosso”

- **Didactic activity**

Lecturer in the Faculty of Architecture, University of Florence, since 1969, starting as Assistant to Professor Piero Sanpaolesi, Professor of Restauro dei Monumenti and Founder of the Institute of Restauro dei Monumenti in the University of Florence

1996-2009

In the University of Florence **Contract Professor**, Courses:

- “Restauro Architettonico” , Faculty of Architecture;
- “Conservation techniques”, Postgraduate School of Archaeology, Faculty of Humanistic
- Scientific Director of the II Degree Level MASTER in “Strengthening of the Structures of the Historic Buildings”

In the following Institutions and Universities:

Lecturer at **ICCROM (UNESCO)** in Rome, Italy, from 1977 to date, in “Strengthening of the Structures of the Historic Buildings”

University of Malta, II Level Master on Architectural Conservation

1996-2005, as **Visiting Professor**, Lecturer on “Strengthening of Historic Wooden Structures” gave key note Lectures in Trondheim Norway, in the Scandinavian University of Science and Technology; Politecnico of Milan, Authority for the Monuments of Venice; Postgraduate School of Architectural Conservation, Universities of Milan and Genoa

For **ASSIRCO (Association of Specialists in architectural conservation)**, Post-graduate Courses organized by Associations of Engineers and Architects in the cities of Catania, Trapani, Palermo, Bari, Cesena, Ravenna, Genova, Perugia, Pisa, Genoa, Trani, Siracusa etc.

Lectures in Universities of Havana, Cuba; University of Buenos Aires, Argentina; Athens, Greece; Universities of Madrid, Valencia, Sevilla, Granada in Spain; Columbia University of New York, USA (1983); American University of Beirut, Lebanon, first Course on Restoration of Monumental Buildings, 1983; in Oslo in the Wood International Course (**UNESCO**)

Lecturer of “Restoration of the Monuments” in the Faculty of Architecture and Engineering of the American University of Beirut, 1983 (July and August), invited by the said University

Lecturer of “Tecniche del restauro” in the Scuola Archeologica Italiana di Atene

Lecturer of “Conservation of Ancient Timber Structures” in the ICCROM, the School of UNESCO at Rome, from 1980 to date.

Director and Lecturer of the Specialization Courses organized by University of Florence (Faculty of Architecture and Faculty of Engineering) in co-operation with Collegio degli Ingegneri della Toscana, on: “Restauro delle Strutture di Legno”, “Restauro delle Strutture Metalliche”, “Restauro degli Edifici a Struttura Muraria” (several editions) etc.

PROFESSIONAL ACTIVITY

Specific experience abroad:

Country	Date from - Date to
Ecuador	2003
Argentina	2000
Mexico	1999
Hungary	1986
Egypt, Greece, Malta	from 1985 on
Cuba	1991
Lebanon	1983

Date from	Date to	Location and Amount	Company	Position	Description
November/2006	on going	Certaldo(Italy) 1.500.000,00 €	Municipality of Certaldo	Designer, Structural Engineer, Work Supervisor, General Coordination	Project of the general Conservation and of the Strengthening Works for the Palazzo dei Vicari and Church of S. Tommaso e Prospero in Certaldo Alto, Florence, Italy. Repair of the timber roof of the Middle Age complex of Palazzo dei Vicari, Certaldo, of the timber floors strengthening of the structural masonry walls. Repair of the vaults and of the floorings. Restoration of the fresco and ceramic decoration (paintings and coat of arms) and of the finishings. Installations.
July/2007	on going	Rome (Italy) 200.000,00 €	Administration of Palazzo Altieri	Designer, Structural Engineer, Work Supervisor, General Coordination, Contract Engineer	Project of conservation and strengthening of the timber roof (XVII c.) and lathing vault of the Salone della Libreria in Palazzo Altieri (XVI c.), Rome. Conservation and strengthening of the timber roof and strengthening of the structural masonry walls. Repair of the lathing vault.
January/2008	November/2008	Arezzo (Italy) 200.000,00 €	Family Cantagalli	Designer, Structural Engineer, Contract Engineer	Project of conservation and Strengthening of the timber canopy (XVI c.) and chapel of the Villa ex Bacci Dini, Arezzo. Conservation and strengthening of the timber canopy and apposition of anti-seismic devices. Conservation and strengthening of the painted masonry chapel.
November/2005	September/2009 (end contract of Work Supervisor)	Paramaribo (Suriname) 2.500.000,00 €	European Union Government of Suriname Ministry of Planning and Development Co-operation National Authorising Officer for EDF	Structural Engineer, Designer, Work Supervisor	Rehabilitation of the St. Peter and Paul Cathedral. Designer, Work Supervisor of the Conservation and Strengthening of the Timber Cathedral (the biggest wooden Church in America) of Paramaribo, Suriname (works almost complete) Strengthening of all the members, the Units, the Structural System, the connections etc.
July/2006	October/2008	Istanbul (Turkey) 100.000,00	Italian Ministry of the Foreign Affairs	Structural Engineer, Designer, Work Supervisor	Repair and Propping of Villa Tarabya in Istanbul, Turkey. Repair and propping of Villa Tarabya (built in 1905), the former Italian Embassy in Istanbul, a masterpiece by the Italian Architect Raimondo d'Aronco. The emergency works, planned in the project, which will prevent the building from further damage and collapse of the parts around the main staircase.
January/2000	November/2004	Florence (Italy)	Province of Florence	Structural Engineer,	Project of strengthening of the wooden structures of the roof of Fest Hall of Villa Demidoff (XIX c.),

		1.500.000,00 €		Designer, Work Supervisor	Florence. Repair and strengthening of the wooden structures of the roof of Fest Hall of Villa Demidoff (XIX c.), Florence. Published 2002
November/2002	October/2004	Florence (Italy) 900.000,00 €	Province of Florence	Consultant for Design and Work Supervision	Project of strengthening of floor structures, in the Lorenzo il Magnifico's House, XV –XVII c, the so called "Carlo VIII Hall", in Palazzo Medici Riccardi, Florence, Italy. Strengthening of floor structures, application of a new system invented ad patented by the Author
February/2000	December/2001	Florence (Italy) 500.000,00 €	Province of Florence	Consultant for Design and Work Supervision	Project of re-composition of the roof, Strengthening of the existing trusses and other roof elements, XVIII Complex of Castelpulci, Florence, Italy. Re-composition of the roof, strengthening of the existing trusses and timber lathing vaults
January/2000	December/2009	Nicosia (Italy) 1.700.000,00 €	Municipality of Nicosia	Consultant for Design and Work Supervision	Study and Conservation of the Wooden Carpentry of the XV c. of the Cathedral and of the painted ceiling (XV c.) for the Municipality of Nicosia, Italy.
January/1990	November/1990	Poggio a Caiano (Italy) 500.000,00 €	Archaeological Superintendence of Tuscany Region	Project coordinator	Study (general survey, geological investigation, structural system and failures) and conservation project (installations, lighting, system of covering, repair, strengthening etc.) of the Etruscan settlements of Montefortini, Poggio a Caiano, Florence, namely the Etruscan Tumulus and the Tombs with corbelled vaults of the area.
February/1994	November/2008	Malta	Government of Malta	Project coordinator and Designer	Conservation Master plan and Designer for the Preliminary Design of Support and Strengthening of the façade of the Pre-historic (IV Millennium b. C.) Temple of Gigantiya in Gozo
February/1985	October/1987	Budapest (Hungary) 600.000,00 €	Italian Ministry of the Foreign Affairs Italian Institute of Culture	Consultant for Design and Work Supervision	Restoration work of huge timber carpentry of the roof of the Old Hungarian Parliament Palace, Budapest, for the Italian Institute of Culture, Hungary
March/1985	May/1985	Egypt	Diocese of Sinai in Cairo and Athens	Consultant	Structural Survey of the Timber Carpentry of the Justinian's Church of Saint Catharine in Sinai. Entrusted, with Architect Christos Katsibinis, by H.B. the Archbishop Damianos of the Diocese of Sinai in Cairo and Athens, of a Structural Survey of the Timber Carpentry of the Justinian's Church of Saint Catharine in Sinai, that is made with the <u>oldest trusses</u> known in the world. A Survey and a Report were delivered (1985 circa); the Project of Conservation is reported in the Candidate's Book " <u>il Restauro delle Strutture di legno</u> ", Hoepli: Milan, 1996
March /1963	October/1996	Tuscany (Italy)	Genio Civile, Ministry of Public Works	Chief Engineer, Contract Engineer, Head of a Unit	Among the most significant works in relation with this assignment: Palazzo Buontalenti (XVII c.), Florence, Strengthening of the Floor with a new system invented by the Author and later patented. Published 1983 Fortezza da Basso, Florence, Sala di scherma, (XVII c.) Strengthening of the Wooden Trusses. Published 1983 Accademia di Belle Arti (XVIII c.), Florence, Strengthening of the Floor. Published 1983 Other projects with no specific problem on wood conservation: Restoration of some monumental buildings such as the Renaissance (XIV c., Filippo Brunelleschi) Spedale degli Innocenti, the Renaissance (XVI c.); Building of the Loggia dei Tessitori, Florence; the XIX c. Building of the Azienda Provinciale del Turismo in Florence; the XVII c. Del Rosso's Mansion in Sansepolcro; the Mediaeval Fortifications of Pienza; general restoration of the huge scholastic complex "T. Buzzi" (XIX c.) in Prato etc.

Winning a national contest (1962) he occupied the post of **Official (Executive)** (1963 – 1996) in the Ufficio del Genio Civile of Florence (Public Works Ministry, since 1972 Dipartimento del Territorio, Regione Toscana); he was, all along his career, the Head of the team of “planning and direction of the new constructions and the conservation of the monuments” for the buildings belonging to the mentioned Bodies; he was mainly involved with the technical aspects of the conservation such as repair, strengthening of the load-bearing structures in masonry, stone, timber, iron and steel etc.; consolidation of the stone, of the wood. Restoration of the monumental buildings such as the Renaissance (XIV c., Filippo Brunelleschi) Spedale degli Innocenti (part of the restoration work carried out after the disastrous flood of 1966), the Renaissance (XVI c.) Building of the Loggia dei Tessitori, Florence, the XIX c. Building of the Azienda Provinciale del Turismo in Florence, the Del Rosso’s Mansion in Sansepolcro, The Mediaeval Fortifications of Pienza, general restoration of the huge scholastic complex “T. Buzzi” (XIX c.) in Prato etc.

In this post he planned, directed and brought to completion restoration interventions by tens, mainly on the ecclesiastic heritage, but also civil or public buildings as well as new constructions such as large scholastic complexes: Scuola Media di Dicomano (24 classrooms, gymnasium, annexes etc.), Scuola Media di Impruneta (24 classrooms, gymnasium, annexes etc.).

Technical coordinator of the Study (general survey, geological investigation, structural system and failures) and Conservation Project (installations, lighting, system of covering, repair, strengthening etc.) of the Etruscan settlements of Montefortini, Poggio a Caiano, Florence, namely the Etruscan Tumulus and the Tombs with corbelled vaults of the area (works going on) as **Scientific Consultant** and **Co-operator** of the local Authority for the Soprintendenza Archeologica per la Toscana, the Tutelage Authority of the Archaeological Monuments in Italy.

Coordinator and **Planner** of the Preliminary Project of the Strengthening and Restoration of the Middle Age (early beginning of the XIV C.) of the Fortress of Scarperia, Florence.

Consultant of the Maltese Government and **Plan Coordinator** of the General Project of the Preliminary Works of Support and Strengthening of the façade of the Pre-historic (IV Millennium b. C.) Temple of Gigantiya, (Gozo, Maltese Archipelago).

Consultant of the Istituto Italiano di Cultura Ministry of Culture), Budapest, Hungary, for the Restoration work of the Old Parliament Palace, present premises of the Institute.

Consultant (with late Professor Sergio Vannucci, Petrographer) of I.N.P.S. (Istituto Nazionale della Previdenza Sociale), the Body owner of the large Estate of Palazzo Pazzi in Florence, built in the early Renaissance and attributed to Filippo Brunelleschi, for the general restoration of the same complex (assessment of the degradation of the structures, decay of the stone, decay of the timber etc; planning of the strengthening, consolidation, adaptive use)

Consultant, 1994, of the Diocese of Sinai, Athens, for the Study and Conservation of the Wooden Carpentry (VI c., Emperor Justinian; the most ancient trusses survived up today) of the Church of Saint Catharine, the very place where, according to the Bible, God showed himself to Moses in the shape of a burning shrub

Consultant, as a member of a Team of the University of Florence, of the Municipality of Scandicci (in the province of Florence) for the study and the conservation programme of the middle age complex called Castello dell’Acciaiuolo; his contribution was to overlook the general survey, the detection and the record of the structural failures and their interpretation, to formulate the criteria for the adaptive use of the complex

Consultant, 2002, of the Diocese of Nicosia, Italy, for the Study and Conservation of the Wooden Carpentry of the XV c. of the Cathedral and of the painted ceiling

Consultant and appointed of the **project calculations**, 2003, of the Amministrazione Provinciale di Firenze (a public Body) for the Conservation and Strengthening of the Renaissance Wooden Floor of the famous “Carlo VIII Hall” in Palazzo Medici Riccardi, Florence, completed in 2004

Consultant, 2004, of the same public Administration for the conservation of the Wooden Coverings of the Scuderie Demidoff (XIX c.), in progress

Consultant, 2004, of the same public Administration for the conservation of the Wooden Coverings of the Castelpulci Architectural Complex (XVIII c.), in progress

Consultant of the Soprintendenza ai Beni Architettonici di Firenze (the public Authority for the Architectural Goods) of the Wooden Carpentry (Covering and ceiling) of the Church of Santa Maria a Fontenuova, XVI c.

- **Scientific activity**

- **Scientific Director** of the Multi-disciplinary Research on the “*Decay of the Stones caused by the Working*”, carried out in the University of Florence, approved and financed by the **Consiglio Nazionale delle Ricerche**; the Results and the discoveries were presented in National and International Scientific Conferences

- *He started in Italy the Culture, the Appraisal, the Conservation of the Ancient Timber Structures;*

Organized and lead the first two National Scientific Conferences (Florence, 1983; Florence, 1989) on these Topics, the International Italy - Japan Meeting on the Conservation of the Ancient Timber Structures, (Florence, March 2000), the International Conference on the Conservation of the Historic Wooden Structures (Florence, February 2005), and editing the surveys and the studies concerning a large number of important historic timber structures of monumental buildings.

As Member of the Wood International Committee of ICOMOS participated actively to the redaction of the Charter of the Historic Timber Structures, and in the final version of the Charter, approved in the General ICOMOS Assembly, Mexico 1999, obtained that replacements of authentic material should be considered rare exceptions; besides he focused the conservation methods on the consideration of the whole timber structure and not only of the wood.

Organized the ICOMOS WIC Symposium: “From Materials to Structure: Mechanical Behavior and Failures of the Ancient Timber Structures”, Florence, 2007, Florence, Venice, Vicenza, 2007

- **Head** of Scientific Missions of Professors of the Faculties of Architecture and Engineering to Lebanon, Senegal, Hungary, Cuba

- **Member** of the **Scientific Committees** of “The International Congress on the Conservation of the Built Heritage”, CICOP, University of Florence, Florence, 2000, “The Conservation of Historical Structures”, Universidade do Minho, Portugal, 2001 etc.

- **Member** of the **Scientific Committee** of the Int. Conf. on Disasters, UNESCO, Florence, 2000
- **Member** of the **Scientific Committee** of the Int. Conf. of CICOP on the Conservation of Monuments, Florence, 2000
- **Member** of the **Scientific Committee** of the 3rd International Seminar on Historical Constructions
University of Minho, Guimaraes, Portugal, 2001
- **Member** of the **Scientific Committee** of the Congress: Hazards and Modern Heritage/CICOP, Rhodes, 2002
- **Member** of the **Scientific Committee** of the 1st Salone Mediterraneo del Restauro e della Conservazione dei Beni Culturali, Catania, 2002
- *Author of several Studies on the Conservation Techniques*
- Co-ordinator of two UNI – Normal Groups, one for the elaboration of a Recommendation on “Terminologia delle strutture di legno” and one for the elaboration of a Recommendation on “Terminologia delle degradazioni meccaniche delle strutture di legno antiche”.

- **Publications**

PUBLICATIONS *specifically concerned with the Ancient Timber Structures and their Conservation-Strengthening*

- 1 **Dissesti statici e tecniche di consolidamento. Il caso dello Spedale degli Innocenti in Firenze**, in Bollettino Ingegneri, Firenze, 1971
- 2 **Dispense del Seminario** da lui tenuto su “Aspetti tecnici del Restauro dei Monumenti”, Eliocopia ed., Firenze 1972
- 3 **La conservazione degli oggetti nei musei**, in Continuità, n. 3 - 4, Bari, 1972
- 4 **Ruolo degli impianti di climatizzazione negli edifici monumentali**, XXIX Congresso dell’Associazione Italiana di Termotecnica, Firenze, 1974, Atti del Congresso, Consiglio nazionale delle Ricerche, Barbieri Editore, Milano, 1976
- 5 **Incertezze operative nel restauro architettonico**, 1° Convegno di studio dei Docenti del Restauro dei Monumenti, Ravello, 1975, in “Restauro”, n° 21/22, Napoli, 1975
- 6 **Restauro e tecniche di intervento**, in Boll. Ing., n°2/3, Firenze, 1976
- 7 **Aspetti formali nei dissesti sismici. Caratteristiche morfologiche causate nei dissesti dal sisma in Friuli. Problemi di intervento negli edifici monumentali**, in Bollettino Ingegneri, n°2-3, Firenze, 1977
- 8 **Il teatro di Sarteano. Notizie storiche. Analisi delle degradazioni. Proposte di restauro** (in coll. with Patrizia Balenci, Federico Franci), in Boll. Ing., n° 12, Firenze 1977
- 9 **Effetti della tecnologia di rifinitura sulla pietra serena fiorentina** (in coll. with R. Cecchi e S. Vannucci), in Boll. Ing., n° 1, Firenze, 1978
- 10 **Investigations on the Degradations of Stone: Working Effects and Conservation Problems** (in coll. con G. Alessandrini, C. Manganelli del Fa, R. Cecchi, R. Peruzzi, S Vannucci), Intern. Symp. on the “Degradation and Conservation of Stone”, Venezia, 1979, Proc. of the Symp., 1979
- 11 **Investigations on the Degradation of Stone: VIII. The Working Effects on the Candoglia Marble** (in coll. with G. Alessandrini, R. Peruzzi, C. Manganelli del Fa, R. Cecchi, S. Vannucci), Int. Symp. on the “Degradation of Stone”, Paris, 1978, Proc. of the Symp. 1979

- 12 **Studi e ricerche sul nucleo antico di Lastra a Signa**, Università di Firenze e Comune di Lastra a Signa, Coppini Ed., Firenze 1980
- 13 **Su cause e forme di degradazione strutturale delle torri vetuste**, in Studi e ricerche sul nucleo antico di Lastra a Signa (v. sopra)
- 14 **Impiego dell'acciaio nel restauro. Criteri applicativi e precisazioni esemplificative**, in Boll. Ing., n°1/2, Firenze, 1980
- 15 **Rilevazione delle tecniche costruttive nello studio degli edifici monumentali**, (in coll. with R. Cecchi e C. Pietramellara), in Bollettino Ingegneri, n° 3, 1980
- 16 **Rilevazione e rappresentazione delle lesioni negli edifici monumentali**, in Bollettino Ingegneri, n° 3, Firenze, 1980
- 17 **Sull'appalto concorso** (in coll. with C. Bianchi), in Bollettino Ingegneri, n° 11, Firenze, 1980
- 18 **Centro antico di Scarperia. Studio geologico architettonico strutturale** (in collab. with R., Cecchi, E. Dotta, P. Malsani, G. Petrini, P. Sanpaolesi, S. Vannucci), XIV Convegno Nazionale di Geotecnica, Firenze, 1980, in Atti del Convegno, Bologna 1981
- 19 **Investigations on the Degradation of Stone: Historical Researches on the Techniques of Working** (in coll. with P. Balenci, C. Pietramellara, S. Vannucci), Int. Symp. on the "Conservation of Stone", Bologna, 1981, Proceedings, Centro Conservazione Sculture all'aperto Ed., Bologna 1981
- 20 **Investigations on the Degradation of Stone: Effects of Finishing Techniques on Sandstones and Marble** (in coll. with G. Alessandrini, P. Balenci, C. Pietramellara), Int. Symp. on the Conservation of Stone, Bologna 1981, Centro Conservazione Sculture all'Aperto ed., Bologna 1981
- 21 **Effects caused on the Stones of the Architecture by Working and Use of Metals** (in coll. with S. Vannucci), 13th Congr. of the Ital. Soc. of Electron Microscopy, Firenze 1981, in Caryologia, Vol. 35, n°1, London, 1982
- 22 **Problemi e tecniche del restauro architettonico. Conservazione di parchi e giardini storici**, in Boll. Ing., n° 7-8, Firenze, 1982
- 23 **Il Romitorio di Santa Maria a Belverde presso Cetona** (in coll. with P. Balenci e F. Franci), in Boll. Ing., n° 7-8, Firenze, 1982
- 24 **Problemi e tecniche del restauro architettonico. Le malte**, in Boll. Ing., Firenze 1982
- 25 **Cetona e Sarteano: due centri antichi della Val di Chiana** (in coll. with P. Balenci, F. Franci), in Boll. Ing., Firenze 1983
- 26 **Restauro delle strutture in legno**, Congresso Nazionale "Legno nel Restauro e Restauro del Legno", Atti del Congr., Palutan Ed., Milano 1983
- 27 **Legno nel restauro e restauro del legno. Catalogo della sezione espositiva** (in coll. with G. Trotta), Giuntina Ed., Firenze 1983
- 28 **Il teatro di Sarteano. Notizie storiche, analisi delle degradazioni, proposte di restauro** (in coll. with P. Balenci, F. Franci), in Boll. Ing., Firenze 1983
- 29 **Rappresentazione delle lesioni negli edifici monumentali** (in coll. with G. Croci), Doc. NORMAL (minist. Beni Cult.)
- 30 **Tecniche costruttive: rilevazione e rappresentazione**, Doc. NORMAL (minist. Beni Cult.)
- 31 **The Iron Pavilion of La Palazzina La Meridiana in the Boboli Gardens**, Symposium on "Ironwork and Iron Monuments. Study, Conservation, Adaptive Use", Ironbridge, England, 23 – 26 October 1984, ICCROM, Rome, 1984
- 32 **Quels monuments?** catal. della Espos. sul patrimonio architettonico monumentale senegalese, Dakar, Sénégal (in coll. with F. Ago, J. Falco, S. Vannucci), Dakar 1984
- 33 **The treatment of a typical soft limestone with different consolidants: a comparative study** (in coll. with S. Vannucci, J. Cassar), in Boll. Ing., n° 11, 1985
- 34 **Relazione generale al Congresso su: Legno nel Restauro e Restauro del Legno**, in Boll. Ing., n° 3, Firenze 1985

- 35 **Wood and Architecture in the Renaissance**, 19th Meeting of the Working Commission W-18 Timber Structures, International Council for Building Research Studies and Documentation 1986, Proc. of the Meeting, Dipt. di Ingegneria Civile dell'Università di Firenze, 1986
- 36 **Materiali e strutture nella Carta di Venezia**, Convegno Italo-Magiario sul restauro dei monumenti storici, Budapest 1986, Proc. published by Istituto Italiano di Cultura di Budapest, 1986
- 37 **Über die Restaurierung bestimmter Materialien und Strukturen von Architekturdenkmälern: technische Erwägungen, Forschungsweisen und die Konservierungspolitik** (in coll. with S. Vannucci), Dresden 1984, Beitrage zum internationalen Symposium der VII General Versammlung des ICOMOS, Berlin 1986
- 38 **Il Campanile. Analisi iconografica costruttiva e strutturale**, Convegno su "La pieve di Sant'Andrea a Cercina", Firenze 1986, Atti pubblicati dal Centro Studi per il Restauro dei Monumenti e dei Centri Storici, Firenze 1986
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