



Università degli Studi di Genova

Dime, Dipartimento di Ingegneria Meccanica, Energetica, Gestionale e dei Trasporti

Sezione Termoeconomica e Condizionamento Ambientale, Tec

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CV Corrado Schenone



Biographical information:

- Born in Genoa October 30, 1962
- School-leaving examination with full marks
- Degree in Mechanical Engineering at the University of Genoa with full marks and distinction
- Ph. D. in Applied Physics

Career:

- University Researcher since March 1992
- Associate Professor at the University of Genoa since February 2000
- At present he is teaching "Applied Physics" and "Environmental Control" at the Polytechnic School of the University of Genoa

Teaching activity:

Lecturer at the Politechnic School of the University of Genoa of the courses

- "Applied Physics" – BSc in Civil Engineering from 2005 to 2012
- "Technic of Environmental Control" - MSc in Mechanical Engineering from 2000 to 2012
- "Applied acoustics" - Degree Course in Building Engineering from 2004 to 2011

Program Erasmus Teaching Staff - Istanbul Teknik Üniversitesi, Istanbul, Turchia - Undergraduate Students
"Architecture": course "Environmental Control Studio" May 2010

Scientific activity:

Corrado Schenone has carried out research at the "Department of Mechanical Engineering" (DIME) of the University of Genoa since November 1987. In addition to fundamental studies on heat transfer, and particularly on boiling phenomena, the main research topics concern environmental energy and noise pollution. At present, he is working about sustainable energy management and about noise control in urban areas.

The research activity has resulted mainly in the publication of 81 scientific papers, as listed hereafter.

Corrado Schenone is member of the editorial board of the Journal of Shipping and Ocean Engineering in respect of the issue "airborne ship noise".



Current research projects:

ENPI-CBC-MED EU Program: MESP “*Managing the Environmental Sustainability of Ports for a durable development*” Partnership: Università di Genova, Al Manar University of Tripoli (Lebanon), ADEP Patras (Greece), Autorit Portuale La Spezia, Marine Science Station – Jordan University (Aqaba- Jordan), Port Authority Tripoli (Lebanon) – Economic value of the project: 1.414.280 EUR

FP7-ENERGY SMART CITIES 2012.8.8.2 Program: CELSIUS “*Combined Efficient Large Scale Integrated Urban Systems*”, Partnership: Göteborgs Stad, Stadt Köln, Rhein Energie AG (D), Greater London Authority, UK Power Networks, Gemeente Rotterdam, Comune di Genova, Genova Reti Gas S.r.l., SP Sveriges Tekniska Institut, London School of Economics, Imperial College London, Technische Universiteit Delft, Fachhochschule Köln, IMCG AB, Università Genova - Economic value of the project: 14.075.000 EUR.

Organizing activities:

- President of the Scientific Committee of the consortium “Innovative Technologies for Sustainable Development and Environmental Control” (TICASS)
- Member of the Technical Committee on Environment Protection of the International Maritime Association of the Mediterranean
- Member of the Scientific Committee of the “Interuniversity Research Centre on Physical Agents Pollution” (CIRIAF)
- Member of the Board of the “Interdepartmental Research Centre for Urban and Ecological Engineering” (CRUIE)
- Member of the Scientific Committee of “Genova Smart City” association
- Member of the Board of the “Regional Energy Agency” (ARE) of Liguria Region
- Coordinator of the Section “Thermoenergetics and Environmental Conditioning - TEC” of the Department of Mechanical Engineering –DIME during the period november 2008 - september 2012

Patent and spin-off company:

Corrado Schenone is author, together with the colleague Ruggero Bartolini, of the patented invention: “*Dissipative silencer for ducts*” IT PATENT N. 0000255798, registered on 2002 September 13. Patent concerns a dissipative silencer which enables sound to be absorbed selectively, that is to say at a given frequency interval, according to the dimensions of the sound-absorbing partition. The thickness of the partitions may be uniform or may vary along the direction of flow of the air or gas in order to achieve the maximum attenuation of the various frequencies in different segments of the silencer.

On March 2012 Corrado Schenone and Marco Di Paolo established the academic spin off INGENIA, company that is active in the field of environmental acoustic and noise control. This company has been officially endorsed by the University of Genoa and complies with the specifics of the Italian Governative Regulation on academic spin offs.

LIST OF PUBLICATIONS OF PROF. CORRADO SCHENONE

- [1] C.Schenone (in collaboration with G.Guglielmini, M.Misale, C.Pasquali and M.Zappaterra), "On performances of nucleate boiling enhanced surfaces for cooling of high power electronic devices", HEAT TRANSFER IN ELECTRONIC AND MICROELECTRONIC EQUIPMENT, Hemisphere Publ. Corp., Washington, D.C., USA, pp.589-600, 1990.
- [2] C.Schenone (in collaboration with A.Magrini and C.Silvi), "Metodi variazionali per la soluzione di equazioni differenziali", Pubblicazioni del Dipartimento di Ingegneria Energetica, Report DINE-EGR/14, Genova, Novembre 1989 (*in Italian*).
- [3] C.Schenone (in collaboration with C.Isetti), "Intorno ai dati di permeabilità al vapore: gli isolanti plastici cellulari", Condizionamento dell'Aria, Riscaldamento, Refrigerazione, anno 34, n.5, pp. 815-823, Editoriale PEG, Milano, Maggio 1990 (*in Italian*).
- [4] C.Schenone, "Raffreddamento di componenti elettronici mediante ebollizione di fluidi dielettrici", memoria presentata al convegno Tecniche di Scambio Termico negli Equipaggiamenti Elettronici, Bologna, 22 Giugno 1990 (*in Italian*).
- [5] C.Schenone (in collaboration with C.Pisoni and L.Tagliafico), "Influenza dei processi di scambio per contatto diretto sulle caratteristiche termodinamiche di espansione di miscele non isoterme liquido-gas", Atti dell'VIII Congresso Nazionale sulla Trasmissione del Calore, pp. 191-206, Ancona, 28-29 Giugno 1990 (*in Italian*).
- [6] C.Schenone (in collaboration with G.Tanda), "Forced convection heat transfer from staggered shrouded fin arrays", International Communications in Heat and Mass Transfer, vol.17, n.6, pp. 747-758, Pergamon Press, Elmsford, USA, 1990.
- [7] C.Schenone (in collaboration with L.Tagliafico), "Un modello per la simulazione numerica di efflussi bifase in regime anulare a gocce", Pubblicazioni del Dipartimento di Ingegneria Energetica, Report DINE-EGR/15, Genova, Dicembre 1990 (*in Italian*).
- [8] C.Schenone (in collaboration with L.Tagliafico and G.Tanda), "Second law performance analysis for offset strip-fin heat exchangers", Heat Transfer Engineering, vol.12, n.1, pp. 19-27, Taylor & Francis Ltd., Londra, Regno Unito, 1991.
- [9] C.Schenone (in collaboration with G.Tanda), "Perdite di carico e scambio termico in convezione forzata per schiere di alette prismatiche", Atti del IX Congresso Nazionale sulla Trasmissione del Calore, pp. 525-539, Pisa, 13 - 14 Giugno 1991 (*in Italian*).
- [10] C.Schenone (in collaboration with F.Ferrando, G.Guglielmini and M.Misale), "An experimental apparatus for studying dielectric fluids boiling", Report DINE-EGR/16, Genova, Luglio 1991 (*in Italian*).
- [11] C.Schenone (in collaboration with G.Guglielmini and M.Misale), "Heat transfer data in pool boiling of dielectric fluids", memoria presentata al XVIII International Congress of Refrigeration, Montreal, Canada, 10 - 17 Agosto 1991.
- [12] C.Schenone, "Ebollizione nucleata di fluidi dielettrici su superfici metalliche", tesi di dottorato, Università di Genova, Febbraio 1992 (*in Italian*).

- [13] C.Schenone (in collaboration with G.Guglielmini and M.Misale), "Esperienze di ebollizione nucleata su superfici orizzontali con fluidi dielettrici", Atti del X Congresso Nazionale sulla Trasmissione del Calore, pp. 357-368, Genova, 25 - 27 Giugno 1992 (*in Italian*).
- [14] C.Schenone (in collaboration with C.Pisoni and L.Tagliafico), "Processi di scambio termico, di massa e di quantità di moto in efflussi bifase non isoterme, gas-liquido", Atti del III Convegno Internazionale Fluidodinamica Multifase nell'Impiantistica Industriale, pp. 215-230, Castelnuovo di Garfagnana, 10 - 11 Settembre 1992 (*in Italian*).
- [15] C.Schenone (in collaboration with G.Guglielmini and M.Misale), "L'ebollizione nucleata di fluidi dielettrici nel controllo termico di dispositivi elettronici", Atti del I Convegno Nazionale sul Controllo Termico dei Dispositivi Elettronici, pp. 143-158, Milano, 23 Ottobre 1992 (*in Italian*).
- [16] C.Schenone (in collaboration with C.Pisoni and L.Tagliafico), "Direct contact heat transfer in two-phase gas liquid flow", METALLURGICAL TECHNOLOGIES, ENERGY CONVERSION, AND MAGNETOHYDRODYNAMIC FLOWS, edited by H. Branover and Y. Unger, Vol.148 of Progress in Astronautics and Aeronautics, AIAA, Washington, DC, pp. 635-648, 1993.
- [17] C.Schenone (in collaboration with G.Guglielmini and M.Misale), "Caratterizzazione termica di fluidi dielettrici per refrigerazione a contatto diretto mediante le cifre di merito", Atti del II Convegno Nazionale sul Controllo Termico dei Dispositivi Elettronici, pp. 100-118, Genova, 15 Ottobre 1993 (*in Italian*).
- [18] C.Schenone (in collaboration with G.Guglielmini and M.Misale), "Pool boiling heat transfer of dielectric fluids for immersion electronic cooling: effects of pressure", THERMAL MANAGEMENT OF ELECTRONIC SYSTEMS, Kluwer Academic Publishers, Dordrecht, The Netherlands, pp.243-253, 1994.
- [19] C.Schenone (in collaboration with G.Guglielmini and M.Misale), "Caratteristiche dell'ebollizione nucleata di fluidi dielettrici su superfici alettate", Atti del III Convegno Nazionale sul Controllo Termico dei Dispositivi Elettronici, Torino, 27 Gennaio 1995 (*in Italian*).
- [20] C.Schenone (in collaboration with C.Pisoni and L.Tagliafico), "Non equilibrium gas-liquid flows in variable cross section ducts", Wärme- und Stoffübertragung, vol.30, n.3, pp.135-141, Springer-Verlag, Berlino, Germania, 1995.
- [21] C. Schenone (in collaboration with G.Guglielmini and M.Misale), "Sul fenomeno di isteresi nell'ebollizione di fluidi dielettrici su superfici estese", Atti del XIII Congresso Nazionale sulla Trasmissione del Calore, pp. 359-370, Bologna, 22-23 Giugno 1995 (*in Italian*).
- [22] C. Schenone (in collaboration with M.Fossa and M.Schenone), "Discrete modelling of road traffic noise in urban areas", Atti del XVIII International Congress for Noise Abatement, pp. 38-43, Bologna, 11-13 Settembre 1995.
- [23] C. Schenone (in collaboration with G. Guglielmini and M. Misale), "Experiments on pool boiling of a dielectric fluid on extended surfaces", International Communications in Heat and Mass Transfer, vol.23, n.4, pp.451-462, 1996.

- [24] C. Schenone (in collaboration with R.Bartolini, M.Fossa and M.Schenone), "Noise emission of buses measured using a pass-by method", Atti del Convegno Internazionale Noise & Planning '96, pp.198-203, Pisa, 28-31 Maggio 1996.
- [25] C.Schenone (in collaboration with L.Fantini), "Distribuzione della popolazione sul territorio italiano in relazione ai gradi giorno", Atti del 51° Congresso ATI, pp.411-422, Udine, 16-20 Settembre 1996 (*in Italian*).
- [26] C.Schenone (in collaboration with E.Nannei), "Alcuni effetti dell'inerzia termica sui transistori di temperatura in ambienti riscaldati", Atti del 51° Congresso ATI, pp.507-518, Udine, 16-20 Settembre 1996 (*in Italian*).
- [27] C.Schenone (in collaboration with A.Bergles, G.Guglielmini and M.Misale), "Pool boiling from multiple square-shaped spines in highly-wetting fluid", Eurotherm Seminar n.48, Paderborn, Germany, 18-20 Settembre 1996.
- [28] C.Schenone (in collaboration with R. Bartolini and U.Magrini), "Correzione acustica di grandi sale soggette a vincoli conservativi: l'oratorio dell'Albergo dei Poveri in Genova", Atti del 25° Convegno Nazionale AIA, pp.Perugia, 21-23 Maggio 1997 (*in Italian*).
- [29] C.Schenone (in collaboration with L.Fantini), "Stima dei consumi di combustibile per riscaldamento degli edifici", La Termotecnica, Anno LI, n.10, pp.63-67, 1997 (*in Italian*).
- [30] C.Schenone, "Un programma per il calcolo della attenuazione del suono lungo un condotto rettangolare con pareti assorbenti", Atti del 26° Convegno Nazionale AIA, pp.547-550, Torino, 27-29 Maggio 1998 (*in Italian*).
- [31] C.Schenone (in collaboration with E. Dassori and L.Fantini), "Tipologia normata di pannelli di tamponamento: considerazioni fisico-tecniche", Atti del 12° Convegno C.T.E., pp. 269-282, Padova, 5-7 Novembre 1998 (*in Italian*).
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- [33] C. Schenone, "Normativa nazionale e regionale in materia di rumore ambientale", Atti del 1° Convegno I.A.E.T., pp.1-13, Genova, 13 Febbraio 1999 (*in Italian*).
- [34] C. Schenone (in collaboration with M.Fossa and M.Schenone), "Un simulatore dinamico del rumore da traffico veicolare in aree urbane", Atti del 27° Convegno Nazionale AIA, Genova, pp.439-443, 26-28 maggio 1999 (*in Italian*).
- [35] C. Schenone (in collaboration with R.Bartolini, M.Fossa and M.Schenone), "Correlazioni per le emissioni di rumore da motoveicoli ed autobus per il trasporto urbano", Atti del 27° Convegno Nazionale AIA, pp.444-448, Genova, 26-28 maggio 1999 (*in Italian*).
- [36] C. Schenone (in collaboration with R.Bartolini, and C.Maggi), "Misura del coefficiente di assorbimento acustico ad incidenza normale per mezzo di un sistema ad onde stazionarie", Atti del 27° Convegno Nazionale AIA, pp.135-138, Genova, 26-28 maggio 1999 (*in Italian*).

- [37] C. Schenone (in collaboration with R. Bartolini, and P. Ricciardi), "Determinazione sperimentale di porosità e resistenza al flusso di materiali acustici granulari", Atti del 27° Convegno Nazionale AIA, pp. 139-143, Genova, 26-28 maggio 1999 (*in Italian*).
- [38] C. Schenone (in collaboration with G. Guglielmini and M. Misale), "Pool boiling heat transfer from square-shaped spines uniformly and non-uniformly spaced", 2nd Int. Symp. on Two-Phase Flow Modelling and Experimentation, Pisa, 23-25 Maggio 1999.
- [39] C. Schenone (in collaboration with G. Tanda and A. Massardo), "Studio sperimentale dello scambio termico convettivo in un canale rettangolare in presenza di alette prismatiche sfalsate.", Atti del XVII Congresso Nazionale sulla Trasmissione del Calore, pp. 15-26, Ferrara, 30 Giugno – 2 Luglio 1999 (*in Italian*).
- [40] C. Schenone (in collaboration with R. Bartolini), "Coefficiente di assorbimento acustico ad incidenza normale di materiali granulari", Atti del 28° Convegno Nazionale AIA, Bari, pp. 197-200, 11-13 giugno 2000 (*in Italian*).
- [41] C. Schenone (in collaboration with R. Bartolini and N. Richeri), "Metodo differenziale per la determinazione della resistenza al flusso", Atti del 28° Convegno Nazionale AIA, pp. 193-196, Bari, 11-13 giugno 2000 (*in Italian*).
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- [43] C. Schenone (in collaboration with G. Guglielmini and M. Misale), "Boiling of saturated FC-72 on square pin fin arrays", Proceedings of the 5th World Conference on Experimental Heat Transfer, fluid Mechanics and Thermodynamics ExHFT-5, pp. 307-314, Thessaloniki, Greece, September 24-28 2001.
- [44] C. Schenone (in collaboration with L. Fantini), "Degree Days, Population Distribution and Heating Energy Consumption", International Journal of Ambient Energy, vol. 22, n. 4, pp. 199-210, 2001.
- [45] C. Schenone (in collaboration with G. Guglielmini and M. Misale), "Boiling of saturated FC-72 on square pin fin arrays", International Journal of Thermal Sciences, vol. 41, n. 7, pp. 599-608, 2002.
- [46] C. Schenone (in collaboration with D. Foppiano and F. Tomasinelli), "Acoustic improvement of the indoor stadium in Genoa", Proceedings of the Forum Acusticum Sevilla 2002, paper RBA-02-018, Sevilla, Spain, September 16-20 2002.
- [47] C. Schenone (in collaboration with R. Bartolini and D. Foppiano), "Sound attenuation in ducts lined with granular material", Proceedings of the Forum Acusticum Sevilla 2002, paper MAT-01-018, Sevilla, Spain, September 16-20 2002.
- [48] C. Schenone (in collaboration with G. Guglielmini, M. Misale and A. Priarone), "Analisi sperimentale sull'effetto dell'orientazione della superficie nell'ebollizione nucleata: risultati preliminari", Atti del XXI Congresso Nazionale sulla Trasmissione del Calore, pp. 257-262, Udine, 23-25 Giugno 2003 (*in Italian*).

- [49] C. Schenone (in collaboration with G. Guglielmini, M. Misale and A. Priarone), “ Effetto dell’orientazione superficiale sull’ebollizione nucleata e sul flusso termico critico di HFE-7100 ”, Atti del XXII Congresso Nazionale sulla Trasmissione del Calore, pp. 565-570, Genova, 21-23 Giugno 2004 (*in Italian*).
- [50] C. Schenone “Gas distribution for molten carbonate fuel cells”, Proceedings of the 1st European Fuel Cell Technology and Applications Conference 2005, paper EFC2005-86281, Rome, 13-15 May 2005.
- [51] C. Schenone (in collaboration with A. Baudà, D. Borelli and A. Marinoni), “Modellizzazione del rumore da traffico aeroportuale: l’aeroporto Cristoforo Colombo di Genova”, Atti del VII Convegno Nazionale CIRIAF, pp. 147-154, Perugia, 30-31 marzo 2007 (*in Italian*).
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- [53] C. Schenone (in collaboration with F. Devia, M. Fossa, G. Guglielmini, and A. Marchitto), Experiments on two phase flow distribution inside parallel channels of compact heat exchangers, International Journal of Multiphase Flow, Volume 34, Issue 2, Feb. 2008, pp. 128-144.
- [54] C. Schenone (in collaboration with M. Di Paolo and S. Sanguineti), Occorrenza di componenti tonali nell’esposizione al rumore lavorativo, Atti del VIII Convegno Nazionale CIRIAF, Perugia, 4-5 aprile 2008 (*in Italian*).
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- [57] C. Schenone (in collaboration with I. Pittaluga, A. Palla, L. G. Lanza), “Le prestazioni acustiche del verde pensile: assorbimento sonoro di coperture di diversa configurazione, Atti del Convegno “2^a Giornata di studio sull’acustica ambientale”, Arenzano (Ge), 30 Ottobre 2009 (*in Italian*).
- [58] C. Schenone (in collaboration with Ruggero Bartolini; Samuel Filippozzi; Elisabetta Princi; Silvia Vicini), “Acoustic and mechanical properties of expanded clay granulates consolidated by epoxy resin”, Applied Clay Science Vol. 48, Issue 3, Apr.2010, pp 460–465.
- [59] C. Schenone (in collaboration with Cecilia Maggi, Grazia Mangili, Eliana Botti) Intervento di bonifica acustica su tipologia di “Area vasta – Genova Sampierdarena”: problematiche acustiche e soluzioni strategiche, Atti del 37° Convegno Nazionale AIA, Siracusa, 26-28 maggio 2010 (*in Italian*).

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