



CV Corrado Schenone



Biographical information:

- Born in Genoa (Italy) 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 Faculty of Engineering of the University of Genoa

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 energy efficiency and acoustics, the recent research topics concern sustainable energy and noise pollution. At present, he is working about sound absorbing materials and noise control in urban areas.

The research activity has resulted mainly in the publication of 86 scientific papers, of which 49 presented in international meetings or printed on books or journals.

Organizing activity:

- 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 Editorial Board of the "Journal of Shipping and Ocean Engineering" concerning the issue "Noise pollution".
- Member of the Board of the "Regional Energy Agency" (ARE) of Liguria Region
- Coordinator of the UE Project ENPI-CBC-MED "Managing the Environmental Sustainability of Ports for a durable development – MESP"
- Scientific responsible for the University of Genoa of the UE Project FP7-ENERGY SMART CITIES 2012.8.8.2: CELSIUS "Combined Efficient Large Scale Integrated Urban Systems"
- Past President of the Scientific Committee of the consortium "Innovative Technologies for Sustainable Development and Environmental Control" (TICASS)
- Past Coordinator of the Division "Thermoenergetics and Environmental Conditioning - TEC" of the Department of Mechanical Engineering –DIME

LIST OF PUBLICATIONS OF CORRADO SCHENONE

LAST TEN YEARS

- [86] C. Schenone (in collaboration with D. Borelli I. Pittaluga), 2013, Experimental study on sound absorbing performance of rubber crumb. PROCEEDINGS OF MEETINGS ON ACOUSTICS, vol. 19, p. 1-9, ISSN: 1939-800X, doi: 10.1121/1.4800428
- [85] C. Schenone (in collaboration with D. Borelli I. Pittaluga), 2013, Analysis of sound absorption behaviour of polyester fibre material faced with perforated panels. PROCEEDINGS OF MEETINGS ON ACOUSTICS, vol. 19, p. 1-9, ISSN: 1939-800X, doi: 10.1121/1.4799887
- [84] C. Schenone (in collaboration with A. Badino), "Analysis of dose-effect relations for noise annoyance and sleep disturbance in an urban area of Genoa", Proceedings of AIA-DAGA Joint Conference, Merano (Italy), 18-21 Marzo 2013.
- [83] C. Schenone (in collaboration with A. Badino, D. Borelli T. Gaggero, E. Rizzuto), "The EU research effort towards the control of noise emissions from ships: the SILENV Project (7FP)", Proceedings of AIA-DAGA Joint Conference, Merano (Italy), 18-21 Marzo 2013.
- [82] C. Schenone, "Numerical Modeling of Environmental Noise", key-note presented at the ACTEA Conference 2012, Louaize (Lebanon), December 12-15, 2012.
- [81] C. Schenone (in collaboration with A. Badino, D. Borelli T. Gaggero, E. Rizzuto), "Normative framework for Ship Noise: Present Situation and Future Trends", Noise Control Engineering Journal, Vol. 60, Number 6, Nov-Dec 2012.
- [80] C. Schenone (in collaboration with I. Pittaluga and G. Mangili), "Analisi e controllo del rumore ambientale nell'area del centro storico di Genova, Atti della V giornata di studio sull'Acustica Ambientale, 19 Ottobre 2012, Arenzano (*in Italian*).
- [79] C. Schenone (in collaboration with A. Badino, D. Borelli T. Gaggero, E. Rizzuto), "Modelling the Outdoor Noise Propagation for Different Ship Types", Proceedings of NAV2012, the 17th International Conference on Ships and Shipping Research, Napoli, 17-19 October 2012.
- [78] C. Schenone (in collaboration with A. Badino, D. Borelli T. Gaggero, E. Rizzuto), "Control of Airborne Noise Emissions from Ships", Proceedings of MARNV2012, INTERNATIONAL CONFERENCE ON ADVANCES AND CHALLENGES IN MARINE NOISE AND VIBRATION, Glasgow (UK), 5-7 September 2012. ISBN: 9780947649906.
- [77] C. Schenone (in collaboration with A. Badino, M. Ascigil-Dincer, S. Yilmaz), "Applicability of road traffic dose-effect relations to Turkish urban context", Proceedings of INTERNOISE 2012, New York City, 19-22 August 2012
- [76] C. Schenone (in collaboration with A. Badino), "Analysis of the outdoor noise propagation from a multipurpose ship berthed near an urban residential area" Proceedings of INTERNOISE 2012, New York City, 19-22 August 2012.
- [75] C. Schenone (in collaboration with F. Asdrubali, S. Schiavoni, F. d'Alessandro, C. Schenone, I. Pittaluga), "Innovative aspects in noise mapping and dissemination activities within LIFE+", Proceedings of the 19th

International Congress on Sound and Vibration (ICSV19). Vilnius (Lt), 8 July 2012, Paper 264, ISBN: 9786094590801.

- [74] C. Schenone (in collaboration with I. Pittaluga and G. Mangili), "Analysis and Control of Ricreational Noise in the historical center of Genova, Italy" Proceedings of the 19th International Congress on Sound and Vibration (ICSV19). Vilnius (Lt), 8 July 2012, Paper 507, ISBN: 9786094590801
- [73] C. Schenone (in collaboration with D. Borelli), "Numerical analysis for the improvement of a special reverberation test room", Proceedings of the 19th International Congress on Sound and Vibration (ICSV19). Vilnius (Lt), 8 July 2012, Paper 532, ISBN: 9786094590801
- [72] C. Schenone (in collaboration with D. Borelli), "A Finite Element Model to Predict Sound Attenuation in Lined Ducts and Dissipative Silencers, HVAC&R RESEARCH, vol. 18(3), p. 390-405, ISSN:1078-9669, doi: 10.1080/10789669.2012.641804 , 2012
- [71] C. Schenone (in collaboration with A. Badino, D. Borelli, T. Gaggero, E. Rizzuto), "Noise emitted from ships: impact inside and outside the vessels", PROCEDIA: SOCIAL & BEHAVIORAL SCIENCES, vol. 48, p. 868-879, ISSN: 1877-0428, doi: 10.1016/j.sbspro.2012.06.1064 , 2012.
- [70] C. Schenone (in collaboration with I. Pittaluga and D. Borelli), "Sound absorption of different green roof systems". Proceedings of Meetings on Acoustics, vol. 14, p. 1-13, ISSN: 1939-800X, doi: 10.1121/1.3685875, 2012.
- [69] C. Schenone (in collaboration with D. Borelli), "Effect of perforated facing on sound absorption of polyester fibre material", Symposium on the Acoustics of Poro-elastic Materials, December 14-16 2011, Ferrara. (Italy).
- [68] C. Schenone (in collaboration with R. Bartolini, D. Borelli), "Flow Resistance and sound absorption of Polyester fibRe material with different coatings", Symposium on the Acoustics of Poro-elastic Materials, December 14-16 2011, Ferrara. (Italy).
- [67] C. Schenone (in collaboration with D. Borelli and I. Pittaluga), "Theoretical and numerical modelling of a parallel-baffle rectangular duct", 162nd Meeting of the Acoustical Society of America, San Diego, CA, 31 Oct-4 Nov. 2011.
- [66] C. Schenone (in collaboration with D. Borelli), "Software procedures to solve common HNM and INM issues", ANERS 2011 Symposium, Marseille, 25 – 27 Oct. 2011
- [65] C. Schenone (in collaboration with A. Badino, D. Borelli, T. Gaggero, E. Rizzuto), "Analysis of airborne noise emitted from ships", in Advances in Marine Structures, vol. 2, pp. 1001-1010. C Rizzuto E. & Guedes Soares, C. (eds.), Leiden: CRC Press/Balkema, 2011.
- [64] C. Schenone (in collaboration with A. Badino, D. Borelli, T. Gaggero, E. Rizzuto), "Criteria for noise annoyance evaluation on board ships", in Advances in Marine Structures, vol. 2, pp. 971-980. Rizzuto E. & Guedes Soares, C. (eds.), Leiden: CRC Press/Balkema, 2011.
- [63] C. Schenone (in collaboration with A. Badino, D. Borelli, T. Gaggero, E. Rizzuto), "Acoustic impact of ships: noise-related needs, quantification and justification", in Sustainable Maritime Transportation and Exploitation of Sea Resources, vol. 2, pp. 961-969. Rizzuto E. & Guedes Soares, C. (eds.), Leiden: CRC Press/Balkema, 2011.
- [62] C. Schenone (in collaboration with A. Badino, D. Borelli, T. Gaggero, E. Rizzuto), "Normative framework for noise emissions from ships: present situation and future trends", in Advances in Marine Structures, pp. 593-602. Guedes Soares, C. & Fricke, W. (eds.), Leiden: CRC Press/Balkema, 2011.

- [61] C. Schenone (in collaboration with Aglaia Badino and Lorenza Tomasoni), "Managing the environmental sustainability of ports: noise pollution", in *Environmental Management and Technologies*, pp. 305-320. Sievers M., Tawabini, B.S., Al-shariff M.M. (eds) AlAtheen Press, Amman (Jordan), 1-3 November 2010.
- [60] C. Schenone (in collaboration with Ilaria Pittaluga), "Assorbimento sonoro di coperture verdi di diversa configurazione", *Atti del 51° Congresso ATI*, Paper 01_272, Domus de Maria (Ca), 13-17 Settembre 2010 (*in Italian*).
- [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*).
- [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.
- [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 "2ª Giornata di studio sull'acustica ambientale"*, Arenzano (Ge), 30 Ottobre 2009 (*in Italian*).
- [56] C. Schenone (in collaboration with D. Borelli), "Analysis of Sound Propagation in Lined Ducts by means of a Finite Element Model", *Proceedings of International COMSOL Conference 2009*, Milano, 14-16 Ottobre 2009.
- [55] C. Schenone (in collaboration with G. Guglielmini, and A. Priarone), "An experimental investigation of two phase pressure drop in small diameter horizontal channels", *Proceedings of 11th International Conference on Multiphase Flow In Industrial Plants*, Palermo, 7-10 Settembre 2008.
- [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*).
- [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.
- [52] C. Schenone (in collaboration with G. Guglielmini, and A. Priarone), "Two-phase pressure drop of HFE-7100 in a horizontal small channel ", *Atti del XXI Congresso Nazionale sulla Trasmissione del Calore*, pp. 123-129, Trieste, 18-20 Giugno 2007.
- [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*).
- [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.
- [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*).

- [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*).
- [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.
- [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.