

CURRICULUM VITAE**INFORMAZIONI PERSONALI**

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Data di nascita	27/11/1961
Qualifica	Professore Ordinario
Dipartimento	Dipartimento di Tecnica e Gestione dei Sistemi Industriali (DTG)
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TITOLI DI STUDIO E CARRIERA

Titolo di studio	Laurea in Ingegneria Meccanica
Carriera	Ricercatore Universitario di ING-IND/10 dal 1990 al 1997 Professore Associato di ING-IND/10 dal 1997 al 2004 Professore Ordinario di ING-IND/10 dal 2004.
Incarichi istituzionali	Member of the Scientific Council of the International Sorption Heat Pump Conference dal 2008 Membro della commissione scientifica di Ateneo dal 2008 al 2012 Chair of the 2011 Sorption Heat Pump Conference ISHPC2011 Vice-direttore del DTG – Vicenza dal 2009 al 2011 Direttore del DTG – Vicenza dal 2012 Membro del NdV del Conservatorio Pedrollo - Vicenza dal 2012 al 2018 Membro del Senato accademico dal 2015 Vice-President of Commission E1 of the International Institute of Refrigeration (IIR) dal 2015. Membro della commissione di Abilitazione Scientifica Nazionale (ASN) per il Settore Concorsuale 09/C2 Fisica Tecnica ed Ingegneria Nucleare dal 2016 al 2018.
Principali pubblicazioni Ultimi 5 anni	1. C.Zilio, G. Righetti, G. Pernigotto, G.A. Longo, Analysis of the freezing time of chicken breast finite cylinders, <i>Int. J. Refrigeration</i>, 2018, vol. 95, pp.38-50. 2. G.A. Longo, L.Fedele, Experimental measurement of equilibrium vapour pressure of H₂O/KCOOH (potassium formate) solution at high concentration, <i>Int. J. Refrigeration</i>, 2018, vol.93, pp.-176-183. 3. G. Righetti, C. Zilio, S. Mancin, G.A. Longo, Heat pipe finned heat exchanger for heat recovery: experimental results and modeling, <i>Heat Transfer Engineering</i>, 2018, vol.39, pp.1011-1023. 4. G.Righetti, G.A.Longo, C.Zilio, R.Akasaka, S.Mancin, R1233zd(E) flow boiling inside a 4.3 mm ID microfin tube, <i>Int. J. Refrigeration</i>, 2018, vol. 91, pp.69–79. 5. G.A. Longo, S. Mancin, G. Righetti, C. Zilio, Saturated vapour condensation of R410A inside a 4 mm ID horizontal 4 smooth tube: Comparison with the low GWP substitute R32, <i>Int. J. Heat Mass Transfer</i>, 2018, vol. 125, pp. 702–709 6. G.A. Longo, L. Ortombina, M. Zigliotto, Application of Artificial Neural Network (ANN) for modelling H₂O/KCOOH (potassium formate) dynamic viscosity, <i>Int. J. Refrigeration</i>, 2018, vol. 86, pp.

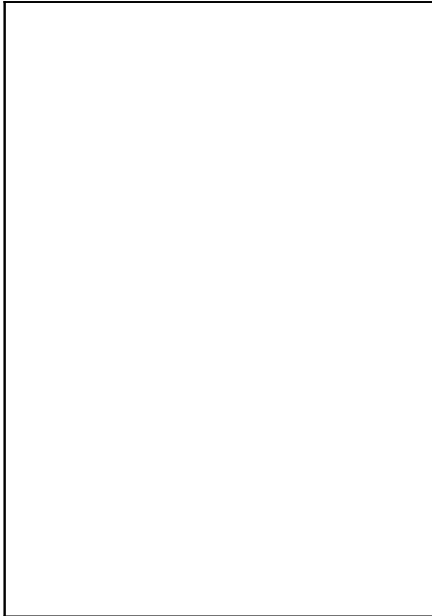
435-440.

7. S. Mancin, C. Zilio, G. Righetti, L. Doretti, **G.A. Longo**, Saturated R134a Flow Boiling inside a 4.3 mm ID Microfin Tube, *Science and Technology for the Built Environment*, (2017) vol. **23**, pp.933–945.
8. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC404a condensation inside a small brazed plate heat exchanger: comparison with the low GWP substitutes propane and propylene, *Int. J. Refrigeration*, 2017, vol. 81, pp. 41–49.
9. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, Hydrocarbon refrigerants HC290 (propane) and HC1270 (propylene) low GWP long-term substitutes for HFC404a: a comparative analysis in vaporisation inside a small-diameter horizontal smooth tube, *App. Thermal Eng*, 2017, vol. 124, pp. 707–715.
10. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, Flow dynamic and energetic assessment of a commercial micro-pump for a portable / wearable artificial kidney: peristaltic vs. diaphragm pumps, *Thermal Science and Engineering Progress*, 2017, vol. 3, pp. 31–36.
11. **G.A. Longo**, C. Zilio, L. Ortombina, M. Zigliotto, Application of Artificial Neural Network (ANN) for modeling oxide-based nanofluids dynamic viscosity, *Int. Comm. Heat and Mass Transfer*, 2017, vol. 83, pp. 8–14
12. L. Doretti, **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, Flow boiling heat transfer on a Carbon/Carbon surface, *Int. J. Heat Mass Transfer*, 2017, vol. 109, pp.938–948.
13. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, Saturated vapour condensation of HFC404A inside a 4 mm ID horizontal smooth tube: comparison with the long-term low GWP substitutes HC290 (propane) and HC1270 (propylene), *Int. J. Heat Mass Transfer*, 2017, vol. 108, pp.2088–2099.
14. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC404A vaporisation inside a Brazed Plate Heat Exchanger (BPHE): comparison with the long-term low GWP substitutes HC290 (Propane) and HC1270 (Propylene), *Applied Thermal Eng.*, 2016, vol. 108, pp. 1401–1408.
15. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFO1234ze(E) vaporisation inside a Brazed Plate Heat Exchanger (BPHE):comparison with HFC134a and HFO1234yf, *Int. J. Refrigeration*, 2016, vol. 67, pp. 125–133.
16. **G.A. Longo**, G. Righetti, C. Zilio, Development of an innovative raw milk dispenser based on nanofluid technology, *Int. J. Food Engineering*, 2016, vol.12, pp.165-172.
17. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, Saturated flow boiling of HFC134a and its low GWP substitute HFO1234ze(E) inside a 4mm horizontal smooth tube, *Int. J. Refrigeration*, 2016, vol. 64, pp. 32-39.
18. **G.A. Longo**, A. Gasparella, Experimental measurement of thermophysical properties of H₂O/KCOOH (potassium formate) desiccant, *Int. J. Refrigeration*, 2016, vol. 62, pp- 106-113.
19. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC32 and HFC410a flow boiling inside a 4mm horizontal smooth tube, *Int. J. Refrigeration*, 2016, vol. 61, pp. 12–22.
20. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, A new model for refrigerant boiling inside brazed plate heat exchangers (BPHEs), *Int. J. Heat Mass Transfer*, 2015, vol. 91, pp. 144–149.
21. **G.A. Longo**, G. Righetti, C. Zilio, Condensation of the low GWP refrigerant HFC152a inside a Brazed Plate Heat Exchanger, *Experimental Thermal And Fluid Science*, 2015, vol. 68, pp. 509 – 515.
22. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC32 vaporisation inside a Brazed Plate Heat Exchanger (BPHE): experimental

	measurements and IR thermography analysis, <i>Int. J. Refrigeration</i>, 2015, vol. 57, pp. 77 – 86. 23. G. Righetti, C. Zilio, G.A. Longo, Comparative performance analysis of the low GWP refrigerants HFO1234yf, HFO1234ze(e) and HC600a inside a roll-bond evaporator, <i>Int. J. Refrigeration</i>, 2015, vol. 54, pp. 1–9. 24. G.A. Longo, S. Mancin, G. Righetti, C. Zilio, HFC32, a low GWP substitute for HFC410a in medium size chillers and heat pumps, <i>Int. J. Refrigeration</i>, 2015, vol.53, pp. 62 – 68. 25. G.A. Longo, A. Gasparella, Three years experimental comparative analysis of a desiccant based air conditioning system for a flower greenhouse: assessment of different desiccant, <i>Applied Thermal Engineering</i>, 2015, vol.78, pp.584 – 590. 26. G.A. Longo, G. Righetti, C. Zilio, A new computational procedure for refrigerant condensation inside herringbone-type brazed plate heat exchangers, <i>Int. J. Heat Mass Transfer</i>, 2015, vol. 82, pp.530 – 536. 27. G.A. Longo, C. Zilio, G. Righetti, J.S. Brown, Experimental assessment of the low GWP refrigerant HFO-1234ze(Z) for high temperature heat pumps, <i>Experimental Thermal And Fluid Science</i>, 2014, vol. 57, pp. 293 – 300. 28. G.A. Longo, C. Zilio, G. Righetti, F. Bertolo, Experimental and theoretical analysis of a heat pipe heat exchanger operating with a low global warming potential refrigerant, <i>Applied Thermal Engineering</i>, 2014, vol.65; pp. 361-368. 29. G.A. Longo, C. Zilio, G. Righetti, J.S. Brown, Condensation of the low GWP refrigerant HFC1234ze(E) inside a brazed plate heat exchanger, <i>Int. J. Refrigeration</i>, 2014, vol. 38; pp. 250 – 259.
Altro (convegni, collaborazione a riviste, ...) Ultimi 5 anni	1. G.A. Longo, S. Mancin, G. Righetti, C. Zilio, R410A and its low-GWP substitute R32 condensation inside a 4 mm horizontal smooth tube, Proc. of the 16th International Heat Transfer Conference, August 10-15, 2018, Beijing, RPC, Paper IHTC16-22500. 2. S. Mancin, L. Doretto, T. Allred, J. A. Weibel, G. Righetti, C. Zilio, G.A. Longo, Nanoparticulate deposition on roughened copper surfaces via nanofluid pool boiling, Proc. of the 16th International Heat Transfer Conference, August 10-15, 2018, Beijing, RPC, Paper IHTC16-22820. 3. L. Doretto, H. Sadfi, G. Righetti, K. Hooman, G. A. Longo, S. Mancin, Aluminum foams for water pool boiling enhancement, Proc. of the 16th International Heat Transfer Conference, August 10-15, 2018, Beijing, RPC, Paper IHTC16-29189. 4. G. Righetti, L. Doretto, S. Mancin, C. Zilio, G.A. Longo, R245fa flow boiling heat transfer on an electrically heated carbon/carbon surface, Proc. of the 16th International Heat Transfer Conference, August 10-15, 2018, Beijing, RPC, Paper IHTC15-8532. 5. G.A. Longo, S. Mancin, G. Righetti, C. Zilio, R134a And Its Low GWP Substitutes R1234yf And R1234ze(E) Flow Boiling Inside A 4mm Horizontal Smooth Tube, Proc. of 17th <i>Int. Refrigeration and Air Conditioning Conference at Purdue</i>, July 9.12, 2018, Paper 2204. 6. G.A. Longo, S. Mancin, G. Righetti, C. Zilio, R134a and its low GWP substitutes R1234yf and R1234ze(E) condensation inside a 4 mm horizontal smooth tube, Proc. of 17th <i>Int. Refrigeration and Air Conditioning Conference at Purdue</i>, July 9.12, 2018, Paper 2205. 7. S. Mancin, G. Righetti, C. Zilio, G.A. Longo, R1233zd(E) and R245fa Flow Boiling Heat Transfer and Pressure Drop inside a 4.2 mm ID Microfin Tube, Proc. of 17th <i>Int. Refrigeration and Air Conditioning Conference at Purdue</i>, July 9.12, 2018, Paper 2469. 8. S. Tafelmeier G.A. Longo, A. Gasparella, Comparison between the performance of sensible and total heat recovery devices and a liquid desiccant twin-tower system, Proc. of 5th <i>International High</i>

Performance Buildings Conference at Purdue, July 9-12, 2018, Paper 3490.

9. **G.A. Longo**, L.Fedele, Experimental measurement of saturation pressure of H₂O/KCOOH (potassium formate) solution at high concentration. *Proc. of Twentieth Symposium on Thermophysical Properties*, 29-29 June, 2018, Boulder, CO, US
10. **G.A. Longo**, H₂O/KCOOH, the desiccant of the future?. *Proc. of 2017 International Sorption Heat Pump Conference (ISHPC2017)*, 7 – 10 August, 2017, Tokyo, Japan
11. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC404A condensation inside a 4mm horizontal smooth tube: comparison with the long-term low GWP substitutes HC290 (Propane) and HC1270 (Propylene), *Proc. of 5th Int.Conference on Thermophysical Properties and Transfer Processes of Refrigerants*, April 23-26, 2017, Seoul, Korea, Paper 012.
12. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC404A boiling inside a 4mm horizontal smooth tube: comparison with the long-term low GWP substitutes HC290 (Propane) and HC1270 (Propylene), *Proc. of 5th Int.Conference on Thermophysical Properties and Transfer Processes of Refrigerants*, April 23-26, 2017, Seoul, Korea, Paper 013.
13. S. Mancin, C. Zilio, G. Righetti, L. Doretti, **G.A. Longo**, R134a Flow Boiling inside a 4.3 mm ID Microfin Tube, *Proc. of 16th Int. Refrigeration and Air Conditioning Conference at Purdue*, July 11-14, 2016, Paper 2265.
14. L. Doretti, S. Mancin, C. Zilio, **G.A. Longo**, R134a Flow Boiling Heat transfer on an Electrically Heated Carbon/Carbon Surface, *Proc. of 16th Int. Refrigeration and Air Conditioning Conference at Purdue*, July 11-14, 2016, Paper 2264.
15. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFO1234ze(E) and HFC134a Flow Boiling Inside a 4mm Horizontal Smooth Tube, *Proc. of 16th Int. Refrigeration and Air Conditioning Conference at Purdue*, July 11-14, 2016, Paper 2167.
16. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFO1234ze(E) Boiling Inside a Brazed Plate Heat Exchanger, *Proc. of 16th Int. Refrigeration and Air Conditioning Conference at Purdue*, July 11-14, 2016, Paper 2166.
17. C. Zilio, S. Mancin, J.S. Brown, **G.A. Longo**, New refrigerant options for R404a replacement in truck refrigeration systems, *Proc. of the 24th International Congress of Refrigeration*, August 16-22, 2015, Yokohama, Japan, Paper ICR2015-436.
18. **G.A. Longo**, G. Righetti, C. Zilio, Development of an innovative raw milk dispenser based on nanofluid technology, *Proc. of the 24th International Congress of Refrigeration*, August 16-22, 2015, Yokohama, Japan, Paper ICR2015-276.
19. G. Righetti, G. Pernigotto, C. Zilio, **G.A. Longo**, Numerical and experimental analysis on poultry freezing time, *Proc. of the 24th International Congress of Refrigeration*, August 16-22, 2015, Yokohama, Japan, Paper ICR2015-273.
20. G. Righetti, S. Mancin, C. Zilio, **G.A. Longo**, Experimental and theoretical analysis of a heat pipe heat exchanger using HFC-152a as working fluid, *Proc. of the 24th International Congress of Refrigeration*, August 16-22, 2015, Yokohama, Japan, Paper ICR2015-270.
21. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, HFC32 vaporisation inside a brazed plate heat exchanger (BPHE), *Proc. of the 24th International Congress of Refrigeration*, August 16-22, 2015, Yokohama, Japan, Paper ICR2015-190.
22. **G.A. Longo**, S. Mancin, G. Righetti, C. Zilio, A new model for refrigerant boiling inside a brazed plate heat exchanger (BPHE), *Proc. of the 24th International Congress of Refrigeration*, August 16-22, 2015, Yokohama, Japan, Paper ICR2015-189.



23. **G.A. Longo**, A. Gasparella, Experimental measurement of thermophysical properties of $H_2O/KCOOH$ desiccant, *Proc. of Nineteenth Symposium on Thermophysical Properties*, June 21 - 26, 2015, University of Colorado at Boulder, Boulder, CO, USA.
24. **G.A. Longo**, C. Zilio, G. Righetti, A new model for refrigerant condensation inside a brazed plate heat exchanger (BPHE), *Proc. of the 15th International Heat Transfer Conference*, August 10-15, 2014, Kyoto, Japan, Paper IHTC15-8532.
25. **G.A. Longo**, C. Zilio, G. Righetti, J.S. Brown, HFO1234ze(Z) saturated vapour condensation inside a brazed plate heat exchanger, *Proc. of 15th International Refrigeration and Air Conditioning Conference at Purdue*, July 14-17, 2014, Paper 2208.
26. G. Righetti, C. Zilio, **G.A. Longo**, Experimental Analysis of R134a and R1234ze(E) Flow Boiling Inside a Roll Bond Evaporator, *Proc. of 15th International Refrigeration and Air Conditioning Conference at Purdue*, July 14-17, 2014, Paper 2220.
27. **G.A. Longo**, A. Gasparella, Three years experimental comparative analysis of a desiccant-based air conditioning system for a flower greenhouse, *Proc. of 2014 International Sorption Heat Pump Conference*, 30 March – 2 April, 2014, Washington D.C., US.

Padova, 27.11.2018