



## Antonella Priarone

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### *Istruzione e formazione*

2001

#### **Degree in Mechanical Engineering (five year curriculum)**

Effetto dell'orientazione superficiale sullo scambio termico nell'ebollizione nucleata di fluidi dielettrici - 110/110 summa cum laude

University of Genoa

2004

#### **PhD in Mechanical Engineering - Applied Physics curriculum**

Caratteristiche dello scambio termico di fluidi dielettrici nella ebollizione stagnante e convettiva in canali di piccole dimensioni

University of Genoa

### *Esperienza accademica*

2005 - 2008

#### **Post PhD Position**

University of Genoa

2008 - 2009

#### **Post PhD Position**

University of Bologna

### *Competenze linguistiche*

#### **English**

Buono

#### **French**

Esperto

DALF

### *Attività didattica*

Heat Transfer (6 ECTS) and Energy and Buildings (6 ECTS) in the M.Sc. in "Energy Engineering" (Savona Campus)

### *Interessi di ricerca*

- A. Priarone, "Effect of surface orientation on nucleate boiling and critical heat flux of dielectric fluids", Int. J. of Thermal Sciences 44,

822-831 (2005).

- M. Fossa, D. Dalla Pietà, A. Priarone, "Measurement of flow parameters in solid-liquid slugging fluidised beds", *Flow Measurement and Instrumentation* 18, 12-17 (2007).
- M. Misale, G. Guglielmini, A. Priarone, "HFE-7100 pool boiling heat transfer and critical heat flux in inclined narrow spaces", *Int. J. of Refrigeration* 32, 235-245 (2009).
- E. Zanchini, S. Lazzari, A. Priarone, "Improving the thermal performance of coaxial borehole heat exchangers", *Energy* 35, 657-666 (2010).
- E. Zanchini, S. Lazzari, A. Priarone, "Effects of flow direction and thermal short-circuiting on the performance of small coaxial ground heat exchangers", *Renewable Energy* 35, 1255-1265 (2010).
- S. Lazzari, A. Priarone, E. Zanchini, "Long-term performance of borehole heat exchanger fields with negligible groundwater movement", *Energy* 35, 4966-4974 (2010).
- M. Misale, G. Guglielmini, A. Priarone, "Nucleate boiling and critical heat flux of HFE-7100 in horizontal narrow spaces", *Exp. Thermal and Fluid Science, Special Issue: Boiling Conference 2009* 35, 772-779 (2011).
- E. Zanchini, S. Lazzari, A. Priarone, 'Long-term performance of large borehole heat exchanger fields with unbalanced seasonal loads and groundwater flow', *Energy* 38, 66-77 (2012).
- A. Priarone, M. Fossa, 'Modelling the ground volume for numerically generating singleborehole heat exchanger response factors according to the cylindrical source approach', *Geothermics* 58 (2015) 32-38.
- A. Priarone, M. Fossa, "Temperature response factors at different boundary conditions for modelling the single borehole heat exchanger", *Applied Thermal Engineering* 103 (2016) 934-944.
- A. Priarone, M. Fossa, E. Paietta, D. Rolando, 'Energy demand hourly simulations and energy saving strategies in greenhouses for the Mediterranean climate', *IOP Conf. Series: Journal of Physics: Conf. Series* 796 (2017) 012027.
- M. Fossa, D. Rolando, A. Priarone, 'An Investigation on the Effects of Different Time Resolutions in the Design and Simulation of BHE Fields', *IGSHPA Technical/Research Conference and Expo, Denver March 14-16, 2017*.
- M. Fossa, B. Stutz, A. Priarone, A. Coperey, 'Thermal Response of helix ground heat exchangers', *IGSHPA Technical/Research Conference and Expo, Denver March 14-16, 2017*.
- A. Priarone, M. Fossa, 'Transient thermal resistance of borehole heat exchangers for hourly simulations of geothermal heat pumps systems', *IGSHPA Technical/Research Conference and Expo, Denver March 14-16, 2017*.
- F. Silenzi, A. Priarone, M. Fossa, 'Energy demand modeling and forecast of Monoblocco Building at the city hospital of Genova according to different retrofit scenarios', *AIGE-IIETA Congress, 12-13 June 2017, Genova*.