Carlo Appino

PERSONAL DATA

Carlo Appino was born in Biella, in 1961.

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BIO AND EDUCATION

14/11/1985: Degree in Physics, from Università di Torino.

22/09/1992: Ph. D. in Physics, from Politecnico di Torino.

01/02/1988 – 30/06/1994: scholarship holder at Istituto Elettrotecnico Nazionale Galileo Ferraris (IENGF).

Since 01/07/1994: full time researcher at l'IENGF (from 2005 Istituto Nazionale di Ricerca Metrologica (INRIM)).

15/09/2010-14/12/2010: Invited scientist at the CNRS-G2Elab, Grenoble (France).

12/10/2014-18/10/2014: Invited scientist at the SATIE laboratory (ENS de Cachan, France).

Referee of a number of international journal, and of main international conferences on magnetism. He served as editor for 4 International Conferences on magnetism.

He participated in 8 International Research Projects/Networks (responsible for IENGF in one of them), and in 3 international Round Robins (Project leader for INRIM in one of them).

Co-tutor of 6 dissertations for the Physics Degree at the University of Torino and 8 bachelor degrees at Politecnico di Torino and University of Napoli.

He is author/co-author of 88 peer-reviewed scientific papers (published in international journals or conference proceedings), and 2 chapters of book.

2016	Chair of the session "Magnetic Energy and Losses", at congress AIM 2016, 14-
	16 marzo 2016, Bormio (Italy)
2016	Member of the International Steering Committee of the conference "1&2
	Dimensional Magnetic Measurement and Testing"
2014	Co-chair of the Program Committee of the conference "13 th International
	Workshop on One- and Two-Dimensional Magnetic Measurement and
	Testing"
1998-2004	Responsible for official line of research at IENGF
1997-2005	Director of the school "MISURE e MATERIALI MAGNETICI" at l'IENGF (INRIM
	from 2005)

SCIENTIFIC POSITIONS

MAIN FIELDS OF INTEREST

- 1. Ferromagnetic hysteresis
- 2. Theoretical and experimental aspects of scalar and vector magnetization processes.
- 3. Magnetic materials for electrical engineering applications

TOP FIVE PAPERS

- F. Fiorillo, L. R. Dupré, C. Appino, A. M. Rietto *"Comprehensive Model of Magnetization Curve, Hysteresis Loops, and Losses in Any Direction in Grain-Oriented Fe-Si"* IEEE TRANSACTIONS ON MAGNETICS, Vol. 38; pp. 1467-1475 (2002).
- E. Della Vecchia, M. Coisson, C. Appino, F. Vinai, R. Sethi *"Magnetic characterization and interaction modeling of zerovalent iron nanoparticles for the remediation of contaminated aquifers*" JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, Vol. 9 (5); pp. 3210-3218 (2009).
- C. Appino, F. Fiorillo
 "A model for the reversible magnetization in amorphous alloys" JOURNAL OF APPLIED PHYSICS, Vol. 76 (9); pp. 5371-5379 (1994).
- C. Appino, G. Bertotti, O. Bottauscio, F. Fiorillo, P. Tiberto, D. Binesti, J. P. Ducreux, M. Chiampi, M. Repetto *"Power losses in thick steel laminations with hysteresis"* JOURNAL OF APPLIED PHYSICS, Vol. 79 (8); pp. 4575-4577 (1996).
- C. Appino, M. Valsania, V. Basso "A vector hysteresis model including domain wall motion and coherernt rotation" PHYSICA B (CONDENSED MATTER), Vol. 275; pp. 103-106 (2000)

FURTHER INFORMATION

He taught courses in physics and materials science at Politecnico di Torino, Università di Torino and Università del Piemonte Orientale.

Collaboration with the SATIE-ENS laboratory of CNRS (UniverSud), Cachan (France).