

1985: **Degree in physics** (110/110), from Università di Torino.
1992: **Ph. D. in physics**, from Politecnico di Torino.
Since 1994: **Full-time researcher** at the Materials Department of the Istituto Elettrotecnico Nazionale Galileo Ferraris (IENGF) (now INRIM - Electromagnetics Division).
1998-2004: **Responsible** for official lines of research at IENGF.
1997-2005: **Organizer/director** of the IENGF School “Measurements and Magnetic Materials”.
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).

Co-chair of the Program Committee for the 13th International Workshop on One- and Two-Dimensional Magnetic Measurement and Testing (Torino 10-12 September 2014).

Project leader of the “Extended measurements to Project IEC/TR TC 68-7” (Single Sheet Tester Round Robin Test, Epstein and other measurement), for which INRIM played the role of Pilot Laboratory (2013-2014).

Referee of a number of international journals (e.g., IEEE Trans. on Mag., JMMM, J. Phys., Physica B, IJAEM), and of main international conferences on magnetism.

He served as **editor** for the International Conferences ICM (2003), SMM19 (2009) and 2DM 2014.

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.

Teaching activity: he taught courses in physics and materials science at Politecnico di Torino, Università di Torino and Università del Piemonte Orientale.

He participated in 8 International Research Projects/Networks (**responsible** for IENGF in one of them).

He is author/co-author of 78 peer-reviewed scientific papers published in international journals or conference proceedings (2 chapters of book).

Its research activity mainly regarded the fundamental properties of crystalline and amorphous magnetic materials and thin films, with particular interest devoted to the vector nature of the magnetization process, both from experimental and theoretical viewpoint. Recent efforts have been devoted in theory and experiments on soft magnets, in particular the novel magnetic composites, subjected to complex excitation regimes: distorted, rotational, and elliptical fluxes. Such regimes emulate the real working conditions of magnetic cores in electrical machines.

PUBLICATIONS of the past 5 years

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. Ragusa, **C. Appino**, F. Fiorillo (INVITED paper)

Comprehensive investigation of alternating and rotational losses in non-oriented steel sheets

PRZEGLAD ELEKTROTECHNICZNY

Vol. 85; pp. 7-10 (2009)

C. Appino, F. Fiorillo, C. Ragusa

One-dimensional/two-dimensional loss measurements up to high inductions

JOURNAL OF APPLIED PHYSICS

Vol. 105; pp. 07e718-1-07e718-3 (2009)

C. Appino

Representation of memory in particle assembly hysteresis models

IEEE TRANSACTIONS ON MAGNETICS

Vol. 45 (11); pp. 5184-5187 (2009)

O. de la Barrière, **C. Appino**, F. Fiorillo, C. Ragusa, H. Ben Ahmed, M. Gabsi, F. Mazaleyrat and M. Lo Bue

Loss separation in soft magnetic composites

JOURNAL OF APPLIED PHYSICS

Vol. 109; pp. 07A317-1-07A317-3 (2011)

O. de la Barrière, **C. Appino**, F. Fiorillo, C. Ragusa, M. Lecrivain, L. Rocchino, H. Ben Ahmed, M. Gabsi, F. Mazaleyrat and M. Lo Bue

Extended frequency analysis of magnetic losses under rotating induction in soft magnetic composites

JOURNAL OF APPLIED PHYSICS

Vol. 111; pp. 07E317-1-07E317-3 (2012)

C. Appino, O. Bottauscio, O. de la Barrière, F. Fiorillo, A. Manzin, C. Ragusa.

Computation of eddy current losses in Soft Magnetic Composites

IEEE TRANSACTIONS ON MAGNETICS

Vol. 48; pp. 3470-3473 (2012)

O. de la Barrière, **C. Appino**, F. Fiorillo, C. Ragusa, M. Lecrivain, L. Rocchino, H. Ben Ahmed, M. Gabsi, F. Mazaleyrat and M. Lo Bue

Characterization and prediction of magnetic losses in Soft Magnetic Composites under distorted induction waveform

IEEE TRANSACTIONS ON MAGNETICS

Vol. 49 NO. 4; pp. 1318-1326 (2013 April)

C. Appino, O. de la Barrière, F. Fiorillo, M. Lo Bue, F. Mazaleyrat, C. Ragusa

Classical eddy current losses in Soft Magnetic Composites

JOURNAL OF APPLIED PHYSICS

Vol. 113; pp. 17A322-1 - 17A322-3 (2013)

O. de la Barrière, C. Ragusa, **C. Appino**, F. Fiorillo, M. Lo Bue, F. Mazaleyrat

A computationally effective dynamic hysteresis model taking into account skin effect in magnetic laminations

PHYSICA B (CONDENSED MATTER)

Vol. 435; pp. 80-83 (2014)

O. de la Barrière, C. Appino, C. Ragusa, F. Fiorillo, F. Mazaleyrat, M. Lo Bue

High frequency rotational losses in different Soft Magnetic Composites (SMC)

JOURNAL OF APPLIED PHYSICS

Vol. 115; pp. 17A331-1 - 17A331-3 (2014)

C. Appino, C. Ragusa, F. Fiorillo. (KEYNOTE paper)

Can rotational magnetization be theoretically assessed?

A. INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS

Vol. 44; pp. 355-370 (2014)

Beatrice, **C. Appino**, O. de la Barrière, F. Fiorillo, C. Ragusa

Broadband magnetic losses in Fe-Si and Fe-Co laminations

IEEE TRANSACTIONS ON MAGNETICS

In press