

Letter from the editors

Renato Betti¹ · Angelo Guerraggio² · Settimo Termini³

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In our lives we often fix objectives to be achieved in harmony with our beliefs. The normal processing of memories may cause us to unconsciously shift—backward or forward—the moment when our beliefs were formed and our goals came into focus. But there are exceptions. When, 30 years ago, the adventure of PRISTEM began, no one set the goal of lasting 30 years and being able to publish 100 issues of our Lettera. We are sure of this, there is no possible deformation of the memories. And there is something else we are *sure* of: we have always tried to make different aspects interact. It was not, therefore, something anomalous to have celebrated these three decades on 19 May 2017 in the Aula Magna of the Università Bocconi with a performance by Sebastiano Lo Monaco of the text Per non morire di mafia ("So as not to die of mafia"), in which the anti-mafia magistrate and present President of the Italian Senate Pietro Grasso recounts excerpts from his life, at the moment when exactly 25 years have passed since the murder of the judges Giovanni Falcone and Paolo Borsellino; afterwards, Nando Dalla Chiesa has interviewed Grasso on contemporary topics.

Settimo Termini settimo.termini@unipa.it

Renato Betti renato.betti@polimi.it

Angelo Guerraggio angelo.guerraggio@unibocconi.it

- Dipartimento di Matematica, Politecnico di Milano, Piazza Leonardo da Vinci 32, 20133 Milan, Italy
- Centro PRISTEM-Università Bocconi, Piazza Sraffa 11, 20136 Milan, Italy
- Dipartimento di Matematica e Informatica dell'Università di Palermo, Via Archirafi 34, 90123 Palermo, Italy

It was a beautiful day, full of inspirations and thoughts, one with which we are very satisfied. The event was opened by the Rector of Bocconi University, Gianmario Verona, and closed by its President, Senator Mario Monti. There was also a moment when Angelo Guerraggio recalled some salient moments of our history (Fig. 1).

We have always stressed the fruitful intertwining of everyday life, civic engagement, research and scientific communication, because we believe that culture is one.

Assuring our readers that we will move forward with the same spirit, let us speak now of the issue of *Lettera* that you are holding now.

We open with the part 2 of the ongoing series "Communicating mathematics in Europe" by Andrea Capozucca, who this time interviews **Alex Bellos** about his activity as a populariser of mathematics. Ledo Stefanini, in "Eadem mutata resurgo: A mountaineering tool with a mathematical origin", discusses the mathematical aspects of a camming device called "friend". Lucio Cadeddu and Sonia Cannas explain what is meant by "Musical surfaces" by mapping musical canons on surfaces other than the Euclidean plane. "Why do we need the history of mathematical teaching?" is a dialogue between Angelo Guerraggio and Luigi Pepe, who look at the history of mathematics teaching. In "Who was Karl Ferdinand Braun?" Matteo Bischi tells of the tensions between Guglielmo Marconi and Karl Ferdinand Braun, following the award of the joint Nobel Prize for Physics in 1909. Finally, in "From thermodynamics to philosophical tradition: Pierre Duhem's research between 1891 and 1896", Stefano Bordoni shows us how Duhem's urge to reflect on the scientific method grew out of his activity as a scientist.

We hope you enjoy this issue.

Translated from the Italian by Daniele A. Gewurz.



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Fig. 1 From left to right:
Umberto Bottazzini, Pietro
Nastasi, Gian Italo Bischi,
Pietro Greco, Renato Betti,
Simonetta Di Sieno (hidden
by Settimo Termini), Settimo Termini, Aldo Brigaglia,
Angelo Guerraggio, Pietro
Grasso, Francesco La Teana,
Giovanni Battimelli, Giovanni
Paoloni, Liliana Curcio, Mauro
Comoglio, Desiderio Poletto,
Luca Alberini, Jacopo De Tullio





Renato Betti is a former professor of geometry at the Politecnico di Milano, where he is currently Adjunct Professor. His research concerns category theory and its applications to algebra and geometry. His recent publications include La matematica come abitudine del pensiero. Le idee scientifiche di Pavel Florenskij (Libri del Pristem, 2009) and Geometria leggera. Introduzione all'idea di spazio matematico (Franco Angeli 2015). He is a corresponding member of the Acca-

demia Nazionale Virgiliana in Mantua.



Angelo Guerraggio is lecturer of general mathematics at the Università dell'Insubria in Varese and at the Bocconi University in Milan, where he directs the Research Centre PRISTEM (Progetto RIcerche SToriche E Metodologiche), founded by him in 1987. His research interests range from non-linear programming to the history of mathematics, with particular reference to the Italian post-unification period. In 2007 he was appointed by the Italian Government national representative for the

committees of the 7th Framework Programme of the European Union.



Settimo Termini was professor of Theoretical Computer Science at the Universities of Palermo and Perugia, directing-from 2002 to 2009-the Istituto di Cibernetica "Eduardo Caianiello" of the Italian National Research Council (CNR) in Naples. A theoretical physicist by training, he has been mainly concerned with problems raised by the treatment of incomplete and revisable information in complex systems and, recently, with the connections among scientific research, inno-

vation and economic development. His work forms the basis of the "Theory of measures of fuzziness". Fellow of the International Fuzzy Systems Association (IFSA) and the Accademia Nazionale di Scienze Lettere ed Arti, his books include: Aspects of Vagueness (with Heinz J. Skala and Enric Trillas; Kluwer, 1984); Imagination and Rigor (Springer, 2006); Contro il declino (with Pietro Greco; Codice, 2007); Memoria e Progetto (with Pietro Greco; GEM 2010).

