The Legacy of Mario Pieri in Foundations and Philosophy of Mathematics

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Errata and Addenda

This document acknowledges errors, corrects some, and briefly reports additional relevant information that came to light only after publication.[1] The symbol ¶ stands for "paragraph beginning".

Frontispiece and Dedication	Some copies of the book did not include the frontispiece and dedication pages i and ii. They are reproduced as the final two errata pages.
Illustrations	The running header was intentionally suppressed from page xxii.
Chapter 1	
1.3 *Foundations of Geometry*	
5 ¶"From the translations"	Remove the quotation mark.
Chapter 2	
2.5 Proofs	
11 Second displayed quote	Remove the quotation mark.
Chapter 3	
3.4.3 Padoa	
42 Footnote 46	Change "seems to be" to "is one of the" and "use" to "uses". Append this: "Pieri (1898b, 797–798) had used the word "formal" to describe the process of showing that two axiom systems are equivalent."
Chapter 4	
4.0 Chapter Introduction	
51 Footnote 12	Change "[1900] 1899" to "1900".
53 Footnote 18	Change "[1900] 1899" to "1900".
4.4 §4	
66 ¶"If one does"	Change "Veronese" to "VERONESE".

[1] These corrections are *not* entered on the master copy at http://smith-at-sfsu.net/Documents/PieriBook/Volume2/Volume2.htm

Chapter 5

5.7 From Duality to Plurality

132 Footnote † — Remove the second line break. That will also correct the bottom border of the box.

Chapter 6

6.5 The Projective Segment

171 Footnote 65 — Change "108" to "103".

6.8 The Projective Triangle (§8)

187 Paragraph 1, line 5 — Change "precedes" to "proceeds".

Chapter 7

7.5 Postlude

243 Line 4 — Change "Austrian" to "Austrian-German".

Chapter 9

9.2.1 Principles That Support the Geometry of Position

345 Displayed line "XIV..." — Change "$d \in (abc)$" to "$d \notin (abc)$".

9.2.6 New Method for Developing Projective Geometry Deductively

373 Line beginning "derived it" — Change "I–XI" to "I–XIV".

374 Top paragraph — Change "1899" to "1898", change "But in 1898" to "Although they had corresponded previously", and change "in Italy" to "before he completed 1898c".

374 Displayed line "XX. . . ." — Change "XIX" to "XVIII", "6.11" to "6.9", and "214" to "198".

374 Footnote 175 — Delete "and". After "§2" insert ", Schur [1897] 1997, and Voelke 2010, 225".

9.4.1 Geometry Envisioned as a Purely Logical System

435 Footnote 380 — Change "[1900] 1899" to "1900".

9.4.4 On the Consistency of the Axioms of Arithmetic

459 Footnote 455 — Append this sentence: The essence of Quine's definition had appeared already, without fanfare, in Friedrich Bachmann's 1934 doctoral dissertation, *Untersuchungen zur Grundlegung der Arithmetik mit besonderer Beziehung auf Dedekind, Frege und Russell*, Leipzig: Felix Meiner, page 17.

Chapter 10

10.3 Pedagogical Themes

This paper has appeared: Marchisotto, Elena Anne Corie, and Ana Millán Gasca. 2021. Mario Pieri's view of the symbiotic relationship between the foundations and

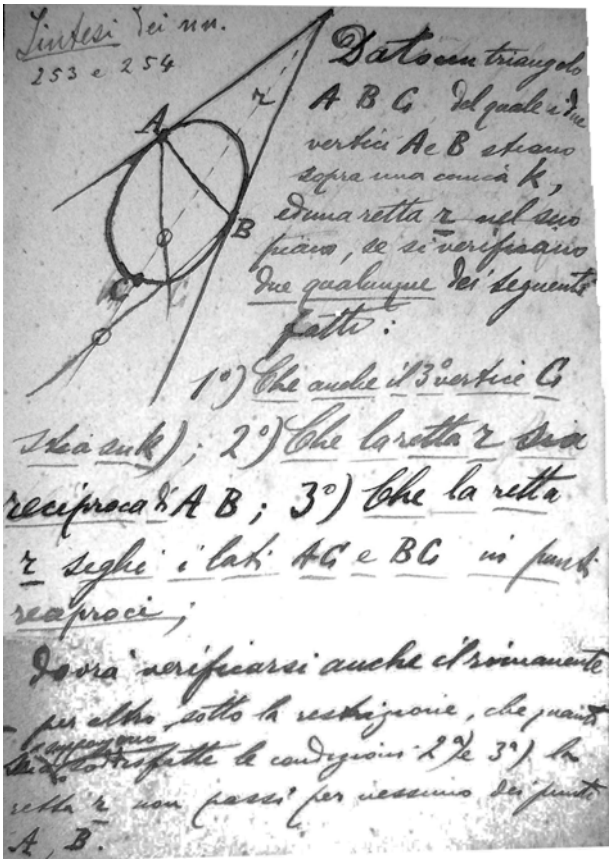
the teaching of elementary geometry in the contexxt of the early twentieth century proposals for pedagogical reform. *Philosophia Scientiæ* 25: 157–183.

10.4.2 Foundations of Geometry

This paper has appeared: Marchisotto, Elena Anne Corie. 2022. H. S. M. Coxeter's theory of accessibility: from Mario Pieri to Marvin Greenberg. *Results in Mathematics* 77: paper 187, 61 pp. MR: Havlicek. See also Bottazzini's *zbMATH* review 07565974.

Bibliography

523	Arrighi 1997	After "Schönflies 1907," insert "Schur [1897] 1997".
530	Couturat [1900] 1899	Change "[1900] 1899" to "1900" and "1:" to "2:"
541	Int. Congress 1900–1901	Change "[1900] 1899" to "1900".
543	Klein 1926–1927	Change "1909." to "19."
556	Pieri 1898c	Change "Pieri and Russell" to "Russell and Pieri".
557	Pieri [1900] 1901	Change "[1900] 1899" to "1900"
564	New entry	Schur, Friedrich. [1897] 1997. Postcard to Mario Pieri, 18 February. Item 113 in Arrighi 1897. Cited in 9.2.6.
571	New entry	Voelke, Jean-Daniel. 2010. Les fondements de la géométrie selon Friedrich Schur. *Revue d'histoire des mathématiques* 16: 217–286. Cited in 9.2.6.


Sintesi dei nn.
253 e 254

Dato un triangolo
A B C del quale i due
vertici A e B stiano
sopra una conica k,
e una retta r nel suo
piano, se si verificano
due qualunque dei seguenti
fatti:

1°) Che anche il 3° vertice C
stia anch'esso su k; 2°) Che la retta r sia
reciproca di A B; 3°) che la retta
r seghi i lati AC e BC in punti
reciproci;

dovrà verificarsi anche il rimanente
per altro sotto la restrizione, che quando
si verifichi la condizione 2°) e 3°) la
retta r non passi per nessuno dei punti
A, B.

Pieri's Handwork for his Staudt Translation (see subsection 9.1.2, page 315)

To

My husband Joseph A. Marchisotto with gratitude for his love and support, and H. S. M. Coxeter with deep appreciation for so many decades of encouragement and advice

—EAM

To

Ivor Grattan-Guinness and John Corcoran, for their support in the earliest times of my career

—FR-C

And to

My teacher Haragauri N. Gupta, who started me on the road to exploring the foundations of geometry

—JTS