

Table of contents

Introduction	i
I-Teaching of mathematics fields	
Algebra in Swedish mathematics curricula (1930–2000)	
<i>Johan Prytz</i>	1
Toward a rigorous teaching of calculus in France in secondary education (1887-1904)	
<i>Hervé Renaud</i>	15
Logarithms through their history in mathematics education	
<i>Sam Riley</i>	29
Shaping analytic geometry as a secondary school subject. A comparative study	
<i>Maria Cristina Oliveira and José Manuel Matos</i>	43
Descriptive geometry in middle school mathematics teaching in Japan (1905-1946)	
<i>Kei Kataoka</i>	57
Royaumont's aftermath in Iceland – Motion geometry, transformations and groups (1968-1973)	
<i>Kristín Bjarnadóttir</i>	73
Presentation of the first probability textbook in the newly established Greek state	
<i>Varvara Toura and Konstantinos Nikolantonakis</i>	87
The teaching of graphical calculus in engineering schools (1860-1970)	
<i>Dominique Tournès</i>	101
II-Teaching mathematics in cultural and national contexts	
Highest mathematics: how mathematics was taught to future Russian tsars	
<i>Alexander Karp</i>	115
The history of Tatar mathematics education	
<i>Ildar Safuanov</i>	129
Mathematical studies in the 18 th century, in the work of François René de Chateaubriand	
<i>Jean-Paul Truc</i>	143

Mathematics in the <i>Bulletin de l'enseignement de l'AOF</i> (French West Africa. Education Bulletins) (1913-1958)	
<i>Carène Guillet</i>	151
Textbooks using mathematics in the margins of current mathematics: manuals for teaching inheritance in Morocco	
<i>Ezzaim Laabid</i>	165
Sulaymân al-Harâ'irî (1824-1877): his attempts to reconcile the Islamic civilization with modern science and mathematics education	
<i>Mahdi Abdeljaouad and Pierre Ageron</i>	177
Edgar J. Edmunds (1851-1877): a cross-cultural case study of an African American mathematics teacher who studied at the <i>École polytechnique</i>	
<i>Sian Zelbo</i>	193
III-Pedagogical movements and reforms	
Scientific novelties implemented into teaching mathematics in secondary schools on the Polish territories in the 19 th century. The case of descriptive geometry	
<i>Karolina Karpinska</i>	205
From experimental to theoretical geometry in new pedagogical movements at the turn of the 19 th and 20 th centuries (1872-1906)	
<i>Évelyne Barbin</i>	219
Intuitive and experimental geometry: circulation of international proposals	
<i>Circe Mary Silva da Silva and Maria Celia Leme da Silva</i>	233
Actors in the change of ICMI: Heinrich Behnke and Hans Freudenthal	
<i>Fulvia Furinghetti, Livia Giacardi and Marta Menghini</i>	247
Metamorphosis of geometrical teaching in France (1950-1969)	
<i>René Guitart</i>	261
Back to the future – a journey from current education reforms to reformations in the past	
<i>Ysette Weiss</i>	275
IV-Methods of teaching	
The development of forms for studying mathematics	
<i>Gert Schubring</i>	289
Friedrich Froebel's conception of crystallography and the mathematical education at the 19 th century kindergartens	
<i>Michael Friedman</i>	303
The pedagogical aim of recreational mathematics' mechanical puzzles at the end of the 19 th century in France	
<i>Lisa Rougetet</i>	317

Giving a <i>Conférence</i> at the <i>École polytechnique</i> at the end of the 19 th century <i>Yannick Vincent</i>	331
Walking through the history of geometry teaching by Cevian and orthic triangles and quadrilaterals <i>Maria Adesso, Roberto Capone, Oriana Fiore and Francesco Tortoriello</i>	343
Georges Cuisenaire's numbers in color. A teaching aid that survived the 1950s <i>Dirk De Bock</i>	355
On the history of mathematics trails <i>Joerg Zender</i>	369
Index	383
Contributors	397