

# THE SWISS RAILWAY SAGA

*150 Years of Swiss Trains*



# Contents

- MORITZ LEUENBERGER  
5 The Train Moves
- Biedermeier: The Era of Mail-coaches**
- BORIS SCHNEIDER  
11 New Roads, new Links
- BORIS SCHNEIDER  
19 On the Way to the Railway: The First Steps
- The Great Era of the Pioneers 1847–1902**
- BORIS SCHNEIDER  
25 From the Spanish Bun Railway to the Large Lines
- BORIS SCHNEIDER  
29 The Great Private Railways
- RALPH SCHORNO  
41 A European Premiere:  
A Rack Railway on the Rigi
- BARBARA GRAF  
44 The Rigi – Queen of the Swiss Mountains with a View in the 19th Century
- ALFRED WALDIS  
47 A Century and a Half of Alpine Railway Projects
- RALPH SCHORNO  
51 The Railways at the Gotthard
- BARBARA GRAF  
63 A Journey through the Gotthard with Carl Spitteler
- HANS WISMANN  
67 Railways, Trains and Signal:  
Early Railway Technology
- HANS WISMANN  
75 From Covered Wagon to Vestibule Coach
- RALPH SCHORNO  
77 Steam Power: Technology of the Fire Engines
- BORIS SCHNEIDER  
85 Railways also for the Provinces
- RALPH SCHORNO  
93 Railway Network in the Mountains:  
The Cogwheel Opens up the Alps
- BARBARA GRAF  
101 The Railways: Engine for Economy and Trade
- BARBARA GRAF  
106 Persons, Profiles, the Railway Pioneers
- BORIS SCHNEIDER  
109 Catastrophes
- HANS-PETER BÄRTSCHI  
115 Planned 150 Years Ahead: The Fixed Installations of the Private Railway Companies
- HANS WISMANN  
124 Horse-Tramway, Steam-Tramway:  
Public Transport in the City
- BORIS SCHNEIDER  
127 From Private to Federal Railways
- The Extension of the Swiss Railways 1902–1947**
- BARBARA GRAF  
137 ‘Made in Switzerland’ –  
Small Nation with Great Know-how
- HANS-PETER BÄRTSCHI  
139 The Network keeps Growing:  
Bridges, Routes, Stations
- RALPH SCHORNO  
153 White Coal: The Electric Railway Operation
- BORIS SCHNEIDER  
168 Living on the Way;  
Sleeping and Eating on the Train
- HANS-PETER BÄRTSCHI  
171 Encouragement and Competition: Locomotive Construction in the Electronic Industry
- WERNER NEUHAUS  
178 150 Years of Rail Post Service
- BORIS SCHNEIDER  
181 Rolling National Defence: The Railways in War

- Start to a New Railway Era 1947–1997  
 HANS PETER TREICHLER  
 191 Still Unfinished  
 HANS WISMANN  
 195 From Railway Museum  
 to Transport Museum of Switzerland  
 HANS WISMANN  
 201 From City to City: The Intercity-Network  
 BARBARA GRAF  
 215 Who Picks up the Check? Economic Problems  
 WALTER MOSER  
 218 The Future of Freight Traffic  
 BARBARA GRAF  
 223 Travelling in Rhythm: On the Development  
 of the Swiss Time-table System  
 CHRISTOPH HOFMANN  
 229 Rails, Ballast, Ties: Railway Maintenance  
 URS GRABER/ALFRED MEIER  
 235 Feat of Strength at the Lötschberg:  
 Enlargement for Double-track and Piggyback  
 JEAN-PIERRE PFANDER  
 241 Where does How Much Electricity Come From?  
 FRANZ SKVOR  
 247 Public Service to the Point:  
 Modernized Private Railways  
 ALFRED GASSER  
 250 Slowest Express Train of the World:  
 The 'Glacier Express'  
 HANS WEISS  
 261 Traffic and Environment  
 FELIX FEURER  
 267 S-Bahn, Zürich's Regional Express Railway  
 ULI HUBER  
 275 Appearance and Architecture  
 BARBARA GRAF  
 283 The New Railway Jobs – Marketing as Guide  
 BARBARA GRAF  
 289 Railway and Bus 2000 will be Realized  
 PETER ZUBER  
 295 AlpTransit: Trendsetting for the Future  
 SILVIO FASCIATI  
 298 NEAT, Private Version:  
 The Vereina Line by the Rhaetian Railways  
 PAUL BLUMENTHAL  
 303 Where to? Trends in the Travel Market  
 PETER WINTER  
 311 Railway Technology in the Third Millennium  
 EMIL DÜRSMÜLLER  
 312 Dialogue of Science and Industry: Swissrail  
 TREVOR HALVORSEN  
 313 Switzerland also Belongs  
 to the Trans-European EU-Network  
 BENEDIKT WEIBEL  
 315 The Railways Keep Moving  
 Appendix  
 318 Chronology  
 322 Selected Bibliography  
 324 Index of Names  
 325 List of Abbreviations and Index:  
 Railways, Railway Projects  
  
 327 Picture Sources  
 328 Thanks