Bibliography of Porta’s papers
(List originally compiled by Geoff Lambert with additions by Hugh Odom and additional info from Shaun McMahon)

Updated by John Wright, February 26, 2004

This page provides a listing of all the known technical papers written or contributed to by Ing. L. D. Porta on steam locomotives. All papers listed authored by Ing. L. D. Porta unless otherwise noted.

4. Translation and comment of Tross: Neue Erkentnisse und Konstruktions Richtlinien auf dem Gebiet des Lokomotiv Hinterkessels, Glasers Annalen Okt, Nov, Dec 1951. (The translation from German to English would be something like: "New insight and construction guidelines in the area of the locomotive back boiler, i.e. firebox), unpublished, 1952.
7. Adhesencia, XII Congress Pan Americano de Ferrocarriles, Buenos Aires, 1957(?).
12. Une locomotive quasi-ortodoxe a 17% de reudement thermique (en Espagnol), Centro de Estudiantes de Ingenieria de la Universidad de Buenos Aires, 1964.
26. 250 km/h con vapor en Argentina, con carbon de Rio Turbio, Jornadas de CADEF, Santa Rosa de Calamuchita, Argentina, April 1971.
40. Note on flat plated stayed firebox construction for locomotive boiler working at 30 and 60 atmospheres steam pressure, unpublished, 1975.
41. La tracción a vapor en el contexto de la crisis energetica (en Español), XIII Pan American Railway Congress, Caracas, Venezuela, 1975 (also in English)
43. The mechanical design of piston valves, unpublished, 1975.
44. Adhesion in advanced steam locomotive engineering facing the oil crisis, INTI document, 1976.
47. Note on steam locomotives with three cylinders, unpublished, 1976.
48. Written contribution to the discussion of the paper on steam motive power to be read by Mr. Peter Lewty before the Canadian Society of Mechanical Engineers, Calgary, Canada, Nov 23, 1976, unpublished, 1976.
52. Progress on steam locomotive technology carried out in Argentina since 1969 and up to 1976, unpublished, 1976 (?).
56. Note on the Hudson-Orrock furnace heat transfer equation as applied to the locomotive boiler, unpublished, 1977.
62. A note on the optimum lead in steam locomotives, unpublished, 1977


75. A mechanical anti-slipping device for steam, electric or diesel locomotives, unpublished, 1979.


81. Fugas en la placa tubular No. 1 de las calderas humotubulares - Informe numero uno (preliminar), borrador de trabajo, ejemplar numero 35 (en Espanol)- INTI, Depto de Termodinâmica, February 1980.


86. Note on the philosophy of steam locomotive machinery design, unpublished, 1980.

87. Leakage of the No 1 tubeplate for firetube boilers No 1 (preliminary) (in Spanish), INTI, 1980.


98. The PORTA- de LEONARDIS elastic wheel, unpublished, 1983.
99. Some notes on marine uniflow engines of unique design, American Coal Enterprises, 1983.
100. Improvement to the SKINNER uniflow steam engine, American Coal Enterprises, 1983.
101. An example of application of the gas producer combustion system to a water-tube package boiler, unpublished, 1983.
105. The burning of coal on grates- the classical combustion (with discussion with D. Wardale), unpublished, 1983.
106. Bar frame design proposals to avoid "vibrillement" at the back end and facilitate maintenance, unpublished, 1983.
113. The design of the ACE 3000 locomotive. My uncertainty areas, American Coal Enterprises, 1983.
116. The thermo mechanical behavior of the steam locomotive firebox- an overall view, April 1984.
118. Leakage of the No 1 tubeplate for firetube boilers No 1 (preliminary) [in Spanish], INTI, 1984.
120. Boiler foam height meter, American Coal Enterprises, November 1984.
123. For the record: some ideas on advanced steam locomotive tribology, American Coal Enterprises, 1985.
131. Tentative boiler proposals for the Tsinghua University, Tsinghua University, 1985.
140. Locomotives de manœuvre pour les chemin de fer Argentinas (en Español), FA, 1986.
143. The contribution of a new steam motive power to an oilless world, Sedminario Internacional de desarrollo tecnoloico ferroviaro, Guadalajara, 1987.
146. Steam locomotive power: advances made during the last 30 years. The future., XVIII Collogue ICOHTEC, Paris, 1990.
151. The Gas Producer Combustion System as an Answer to Coal-Derived Pollution from Steam Locomotives, 1990.
152. An essay: the prediction of condensation and evaporation in wall effect phenomena occurring in steam engine cylinders, unpublished, 1991 "nearly finished".
153. The influence of condensations in the specific steam consumption of saturated steam engines, according to Doertel, unpublished, 1991 "nearly finished".


165. A preliminary scheme for the modernization of the ex-Baldwin 2-6-2 locomotives, Emerald Tourist Railway Board, Australia, February 1995. ("Puffing Billy" Railway, project continued by Nigel Day in UK and Shaun McMahon in South Africa; proposal still under discussion by the board.)

166. Notas sobre un servicio de lujo a Mar del Plata con locomotoras a vapor (en español), 18 de Julio 1996, Banfield, Argentina. Paper written for the information of Tranex Turismo S.A. during the initial plans for operating a mainline passenger service between Buenos Aires and Mar del Plata using modified or newly constructed steamers. Proposal still under consideration by government authorities in Argentina.


168. Some aspects of the LVM 800 locomotive design, July 1998

169. Specifications for an 0-6-0, 500/600 mm gauge, 150 HP locomotive design, August 1998


172. Report on the FCAF, number 4, 10 September 1999, Banfield, Argentina.


176. A note on oil burners as applied to steam locomotives, January 2000.

177. Cairo: An Advanced Axlebox Scheme for 21st Century Steam Locomotives, January 2000

178. Advanced shunting locomotives for the Argentine railways (in Spanish), Buenos Aires, undated

179. Progress in steam locomotive technology carried on since 1976, unpublished, undated.


182. (as Consulting Engineer, FCAF) Some steam locomotive leakage tests on locomotive Nora, Ferrocarril Austural Fueguino


