

steel works, but declined the appointment, and commenced the study of law with Judge T. Carroll Brewster, in Philadelphia, January, 1871; admitted to Philadelphia bar, January, 1873; Judge Brewster being appointed attorney general of Pennsylvania, he was appointed assistant in his personal practice; practiced in the state and United States courts till January, 1874, since which time he has been associated in law practice with Mr. George Harding, the eminent patent lawyer, of Philadelphia. Married, December 27th, 1871, in Troy, N. Y. P. O. address, Philadelphia, Pa.

CLASS OF 1871.

FREDERICO M. ALCOVER, C. E., was born September 25th, 1846, at Sagua la Grande, Cuba, W. I., where since graduation he has practiced his profession, and is now director of a newspaper. P. O. address, Sagua la Grande, Cuba, W. I.

MIGUEL DE TEIVE E ARGOLLO, C. E., son of Miguel de Teive e Argollo and Maria Murtha de Argollo Pina e Meilo, was born in Bahia City, Brazil, May 10th, 1851. His teacher was Dr. Abilio Cezar Borges, to-day Baron of Macahubas. Entered the Institute in September, 1867. In 1872 began his profession as assistant engineer of the Sorocabana railroad, Brazil; in 1873, made the first exploration of the Conte d'Eu railroad, Brazil; in 1874 entered the Brazilian government service, and was made chief engineer in the Vi Ami railroad explorations and other commissions; in 1879 left the government service, and received from the government the concession and privilege of the Bahia & Minas railroad; in 1881 and 1882, as chief engineer, he constructed one hundred and forty-two kilometres of the Bahia & Minas railroad; is now one of the directors and the general manager of the road; has now a contract with the Brazilian government for the construction of a part of the Ramal de Suro Prete of the Dom Pedro Second railroad. All the works of the Bahia & Minas railroad have been designed and built under his direction. By the official inauguration of the Bahia & Minas railroad, November, 1883, the Emperor gave him the title of

"Commendador da Imperial order da Rosa," which he did not accept, being a Republican. Member of the "Club d'Engentaria," Rio de Janeiro, Brazil. Has published "Formularis de Engentaria," Rio Janeiro, 1875; Viacas Ferrea de Nort de Minas," 1878; "Memoria Descritiva de Estrado de Ferro Bahia e Minas," Rio de Janeiro, 1883. Married, November 27th, 1880, Jovianna Crissiuma, daughter of Francisco Antonio de Freitas Crissiuma. Two children. P. O. address, Hospicio 47, Rio de Janeiro, Brazil.

WILLIAM LATIMER BAKER, C. E., son of William and Francis C. (Latimer) Baker, was born in Toledo, Lucas county, Ohio, June 16th, 1850. Prepared at Toledo public schools and Spring-side School, Pittsfield, Mass., and entered the Institute in the fall of 1868. Commenced work in August, 1871, at Hannibal, Mo., on Mississippi river bridge, at that point, remaining until its completion; assistant engineer on Missouri river bridge, at St. Joseph, Mo., having especial charge of river improvements; in October, 1882, assistant engineer Detroit bridge and iron works, Detroit, Mich., and still remains there, the last few years as superintendent and engineer. Designed structures built by Detroit bridge and iron works, of Detroit, Mich., including numerous railroad bridges, viaducts, etc. Member of the American Society of Civil Engineers, and Western Society of Engineers. Married; November 25th, 1879, Kate P. Mead, of Lockport, N. Y. One child. P. O. address, Detroit, Mich.

WILLIAM S. BATES, M. E., was born in Cincinnati, O., February 7th, 1852. Entered the Institute September, 1867. Student of mining engineering, Berlin, October, 1871, to April, 1872, and of civil engineering in Dresden, April, 1872. At present is a civil and mechanical engineer and contractor. P. O. address, 71 Major Block, Chicago, Ill.

ALFRED SPANG BERTOLET, M. E., (Reading, Pa.) son of Peter G. and Amelia K. (Spang) Bertolet, was born in Oley, Berks county, Pa., August 18th, 1849. Prepared at Reading High School, and entered the Institute September, 1867. Was assistant engineer Atlantic & Great Western railroad, April, 1873, to September, 1873, Meadville, Pa.; assistant in chemistry at the Institute from September, 1873, to June, 1875; chemist to the