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PERSONAL.

Mr. O. A. Yeakum, of St. Louis, Mo., has been appointed General Traffic Manager of the Tennessee Central R. R.
Mr. William M. Stuart, of Detroit, Mich., has been appointed Chief of the Manufactures Division of the Census Bureau for 1900.
Mr. Samuel Rea, M. Am. Soc. C. E., First Assistant to the President of the Pennsylvania R. R., has been promoted to be Fourth Vice-President.
Mr. Stillman W. Wheelock, formerly with Park, Brother & Co., Ltd., has been appointed Sales Agent in charge of the Denver office of the Illinois Steel Co.
Mr. Fred W. McNair, Professor of Mathematics and Physics of the Michigan College of Mines, at Houghton, Mich., has been elected President of that institution.
Mr. Lewis E. Bellows, of Holyoke, Mass., for the last nineteen years with the Deane Steam Pump Co., has resigned his position as Sales Manager of that company.
Major John L. Van Ornum, U. S. Vol. Engrs., Assoc. M. Am. Soc. C. E., has been elected Professor of Civil Engineering in Washington University, St. Louis, Mo.
Mr. William J. Carter, Assoc. M. Am. Soc. C. E., has been appointed Assistant Engineer in charge of Sewers and Drains in the Department of Public Works of Cleveland, O.
Mr. W. H. Reilly has been appointed Master Mechanic of the Fort Worth & Rio Grande Ry., with headquarters at Fort Worth, Tex., to succeed Mr. T. J. Shellhorn, resigned.
Mr. William H. Luster, Jr., has been elected City Surveyor of Elizabeth, N. J., to succeed the late William Colgan. He graduated from Rutgers College in 1881, and lately has been engaged on the New York state survey.
Mr. William A. Patton has been elected President of the New York, Philadelphia & Norfolk R. R. Co., to succeed Mr. Andrew J. Cassatt, who resigned upon being appointed President of the Pennsylvania R. R., as referred to in our last issue.

Mr. W. H. Marshall, Assistant Superintendent of Motive Power and Machinery of the Chicago & Northwestern Ry., has been appointed Superintendent of Motive Power of the Lake Shore & Michigan Southern R. R., vice Mr. G. W. Stevens, resigned.
Mr. G. E. Hoffmaster, for a number of years past General Manager of the New York Suburban Water Co., of Mount Vernon, N. Y., has accepted a position in the business department of the American Water-Works & Guarantee Co., of Pittsburg, Pa.
Mr. F. R. Pechin has been appointed Assistant Superintendent of the Wisconsin Division of the Chicago & Northwestern Ry., with headquarters at Milwaukee, Wis., to succeed Mr. W. D. Cantillon, who has been appointed Superintendent of the Winona & St. Peter Ry.

Rear-Admiral John G. Walker, U. S. Navy, has been elected President of the commission recently appointed by President McKinley to determine the most feasible route for a canal across the Isthmus of Panama. The personnel of the commission was given in our last issue.
Mr. W. C. Merriman, who was Engineer of the Buffalo improvements on the New York Central & Hudson River R. R. until that office was abolished last month, has been appointed Division Engineer of the West Virginia Short Line R. R., with headquarters at New Martinsville, W. Va.

Mr. Ira A. McCormack has been appointed General Superintendent in Charge of Operation of the Prospect Park & Coney Island R. R., which has been leased by the Brooklyn Heights R. R. Co. Mr. J. C. Brackenridge has been appointed Chief Engineer in Charge of Maintenance of Way, Buildings and Construction.

Sir William C. Van Horne has retired from his position as President of the Canadian Pacific Ry., and has been appointed Chairman of the Board of Directors, which is a new position. He was born in Illinois in 1843, and in 1856 became a telegraph operator on the Illinois Central R. R., going in 1858 to the Michigan Central R. R. and in 1864 to the Chicago & Alton R. R., where he became Division Superintendent in 1869. From 1872 to 1874 he was General Superintendent of the St. Louis, Kansas City & Northern Ry., then General Manager and President of the Southern Minnesota Ry. until the end of 1879, and in 1879-79 was also General Superintendent of the Chicago & Alton R. R. Throughout 1880 and 1881 he was General Superintendent of the Chicago, Mil-

waukee & St. Paul Ry., and in January, 1882, he went to the Canadian Pacific Ry. as General Manager. In 1881 he was made Vice-President and General Manager, and in 1888 he became President, and was knighted by the Queen.

Mr. J. N. Chester, Assoc. M. Am. Soc. C. E., of Brooklyn, N. Y., for several years connected with the sales department of Henry R. Worthington, has accepted a position with the engineering department of the American Water-Works & Guarantee Co., of Pittsburg, Pa. The company controls and operates many water-works plants throughout the United States.

Mr. Thomas G. Shaughnessy, Vice-President of the Canadian Pacific Ry., has been appointed President, to succeed Sir Wm. C. Van Horne, who has retired. He was born in Milwaukee in 1853, entered the service of the Chicago, Milwaukee & St. Paul Ry. in 1869, and became General Storekeeper in 1879. In 1882 he was appointed General Purchasing Agent of the Canadian Pacific Ry., Assistant General Manager in 1885, Assistant President in 1889, and Vice-President in 1891.

A number of important changes will be made in the Transportation Department of the Baltimore & Ohio R. R. in July. The position of General Superintendent of the Trans-Ohio lines, now held by Mr. J. M. Graham, will be abolished, and the jurisdiction of General Superintendent Thomas Fitzgerald will be extended over the main line from Philadelphia to Chicago, including its branches. Mr. Graham will become Chief Engineer, with headquarters at Baltimore, succeeding Mr. W. T. Manning, who resigned on March 10, with Mr. P. H. Irwin as Assistant. The jurisdiction of Mr. John E. Spurrier, Superintendent of First Division and branches, with headquarters at Baltimore, will be extended over the Second Division. Mr. F. A. Husted, Superintendent of the Middle Division, will have the Third, Fourth and Fifth divisions, with headquarters at Grafton, W. Va. Mr. R. M. Sheats, Superintendent of the Fourth and Fifth divisions, will be Superintendent of the Chicago terminals. Mr. T. J. English, Superintendent of the Chicago Division, will have the Ohio and Midland divisions, with headquarters at Newark, Ohio, vice Mr. J. H. Glover, assigned to other duties. Mr. F. C. Batchelder, of the Soo Line, will be Superintendent of the Chicago Division, with headquarters at Garrett, Ind. Mr. Charles Galloway, Train Master of the First Division, will be Assistant Superintendent of the First and Second divisions, with headquarters at Cumberland, Md.

Rear-Admiral George W. Melville, Engineer in Chief of the United States Navy, received on June 7, 1899, the Honorary Degree of Master of Science from Columbia University, New York. In introducing the Admiral to the President of the University, during the Commencement Exercises, Professor F. R. Hutton, Head of the Department of Mechanical Engineering, spoke in part as follows:

Mr. President: I am to present to you Rear-Admiral George W. Melville, Engineer in Chief of the United States Navy, who has been named by the Trustees for the Honorary Degree of Master of Science. It is significant that this degree is given to-day for the first time in the history of the University and that its award should be to one to whom the honor is so singularly fitting. I present you Admiral Melville as a Master of Science, both in that field where knowledge for its own sake is its own exceeding great reward, and also in that where the Mechanical Engineer leaves the impress of his thought and creative energy upon concrete achievements in iron and steel.

I bring you, sir, one who has made himself, in the first place, an authority and expert upon Arctic exploration. This knowledge has been acquired in service as an officer, first upon the "Tigress" in the search for a part of the crew of the "Polaris," later as Engineer Officer of the "Jeannette" under Lieut. De Long, and finally with the relief party which went to rescue Greely with the "Thetis" and the "Bear." I turn to the achievements of Admiral Melville in that other field where as Mechanical Engineer he has impressed himself upon the engineering of the Navy of our country. Melville is now serving as Engineer in Chief of the United States Navy for his third term. When he was appointed in 1888, the only modern vessels in commission were the "Atlanta," the "Boston" and the "Dolphin," two cruisers and a dispatch boat. The twelve years of his service have enabled him as Bureau Chief to be responsible for the design and engineering of 120 ships, aggregating 700,000 T.P. Beginning with the "San Francisco," the earliest American-designed vessel of our modern Navy, his sound mechanical judgment, his holdness, and his progressiveness have culminated in the "Columbia" and the "Minneapolis," each triple-screw glants, each holding for a time the world's record for speed.

But, sir, lest I weary with technical detail, I pass to a final reference, to that upon which Columbia to-day bases her need of praise. I refer, sir, to the significance in the war of 1898 which belongs to the preparation and the achievements of the Navy in the Spanish-American conflict. The conception of a floating machine-shop, whereby vessels could be outfitted and repaired a thousand miles from a shore basis and a navy yard, and the development of economical distilling ships whereby a large body of men and vessels on blockade could be supplied with fresh water without the necessity of touching a hostile shore, and the condition of the engineering departments of our vessels when the hour of battle had struck, give Admiral Melville's leadership a significance which we are glad to honor.

OBITUARY.

Mr. J. Fred Moore, formerly City Engineer of Waltham, Mass., died at his home in that city on June 18.

Col. George C. Hoynton, Treasurer of the Columbian Iron Works, of Baltimore, Md., died at Bristol, R. I., on June 17, aged 50 years.

Capt. George W. Coffin, U. S. Navy, retired, is reported to have died at the Yokohama Naval Hospital. He graduated from the Naval Academy in 1863. In 1884 he commanded the "Alert" on the Greeley relief expedition, and became Secretary of the Lighthouse Board in 1889. He became a Captain in 1893, and on Sept. 15, 1897, was placed on the retired list.

Mr. Hilary J. Brunot, a civil engineer and one of the pioneers in the natural gas business of Pennsylvania, died at his home in Greensburg, Pa., on June 10, aged 75 years.

Mr. George W. Phelps, builder and principal owner of the Avon, Genesee & Mount Morris R. R., which now forms a branch of the Erie R. R., died at Mount Morris, N. Y., on June 9, aged 79 years.

Rear-Admiral Pierce Crosby, U. S. N., retired, died in Washington, D. C., on June 13, aged 76 years. He entered the navy in 1838 as a midshipman, and served on the "Decatur" in the Mexican War. During the Civil War he was Fleet Captain of the North Atlantic Squadron under Admiral Lee.

Mr. Charles Baldwin Thurston died at his home in Jersey City, N. J., on June 14, aged 67 years. He was connected with the Pennsylvania R. R., and was the President of the Fayetteville Water, Light & Power Co. of North Carolina, the Jersey City Chain Works Co., the Richmond & Bergen Point Ferry Co., and the Millstone & New Brunswick R. R. Co., and was a member of the boards of several other corporations.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

- AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS June 26-28. Annual meeting at Boston, Mass. Secy., Ralph W. Pope, 26 Cortlandt St., New York city.
AMERICAN SOCIETY OF CIVIL ENGINEERS June 27-30. Annual meeting at Cape May, N. J. Secy., Chas. W. Hunt, New York city.
CANADIAN ELECTRICAL ASSOCIATION June 28-30. Annual meeting, Hamilton, Ont. Secy., C. H. Mortimer, Confederation Life Bldg., Toronto, Canada.
MONTANA SOCIETY OF ENGINEERS July 8. Butte, Mont. Secy., A. S. Hovey, Nat'l Bank Bldg., Helena, Mont.
THE LOUISIANA ENGINEERING SOCIETY July 10. Secy., J. F. Coleman, 712 Union St., New Orleans, La.
WISCONSIN STATE CHEMICAL ASSOCIATION July 13. Secy., L. Ladoff, 151 Knapp St., Milwaukee, Wis.
INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS, AMERICAN SECTION Aug. 15, 16. Annual meeting at Pittsburg, Pa. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.
SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION Aug. 17-19. Annual meeting, Columbus, O. Secy., Albert Kingsbury, Durham, N. H.
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE Aug. 21-26. Annual meeting at Columbus, O. Secy., Prof. Frederick Bedell, Ithaca, N. Y. Local Secy., Prof. H. F. Thomas, Columbus, O.
EASTERN MAINTENANCE OF WAY ASSOCIATION Sept. 26. Portland, Me. Secy., F. C. Stowell, H. & M. R. R., Ware, Mass.

FRANKLIN INSTITUTE—A paper on "Water Power Electrical Plants in the United States" was read before the Electrical Section on June 13, by Mr. H. C. Washington, Jr., of Washington, D. C.

ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.—The work of the association will be continued throughout the summer, but will consist of visits to irrigation, harbor, beet sugar and other works.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.—The preliminary announcement of the 48th annual meeting of the association, and of the several affiliated scientific societies, has been issued. The meeting will be held at Columbus, O., Aug. 21-26. Prof. Frederick Bedell, Ithaca, N. Y., is Secretary of the association, and Prof. H. F. Thomas, Columbus, O., is Local Secretary. The following affiliated national societies will hold meetings before or during the meeting of the association: Forestry, Geological, Chemical, Agricultural Science, Economic Entomologists, Mathematical, Engineering Education, Folk-Lore, Botanical and Microscopical.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Table with columns: Bids to be opened, Work, Place, See Eng. News. Includes entries for brick paving, electric plant, stone roads, navy yard buildings, heating plant, bridges, rubble stone, excavation, artesian well, asphalt paving, water pipe, rebuilding monument, penitentiary building, school buildings, tainter gates, fire bell, court house, gravel road, paving, hospital buildings, park shelters, dredging, electric plant, lanterns.

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