

on the day preceding or on the day of departure. Validating agents will be found at the city ticket offices and the main railway stations in San Francisco, Los Angeles and San Diego, at the Ferry Building, San Francisco, at the Southern Pacific Ferry Pier, Oakland, and at the Western Pacific Station, Oakland. A fee of fifty cents will be charged for the validation of each ticket.

APPOINTMENTS AT THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE board of scientific directors of the Rockefeller Institute for Medical Research announces the following appointments and promotions:

Appointed an associate member:

Dr. James B. Murphy, hitherto an associate in the department of pathology and bacteriology.

The following have been made associates:

Dr. Carrol G. Bull (pathology and bacteriology).
 Dr. Frederick S. Jones (pathology and bacteriology).
 Dr. Clarence J. West (chemistry).
 Dr. Michael Heidelberger (chemistry).
 Dr. Frederick M. Allen (medicine).
 Dr. Oswald T. Avery (bacteriology).
 Miss Angelia M. Courtney (chemistry).
 Dr. Eduard Uhlenhuth (experimental biology).

The following have been made assistants:

Dr. Harold K. Faber (pathology and bacteriology).
 Mr. Chester H. Allen (chemistry).
 Mr. James K. Senior (chemistry).
 Mr. Glenn E. Cullen (chemistry).
 Miss Mariam Vinograd (chemistry).

The following new appointments are announced:

Dr. R. Werner Marchand, assistant in department of animal pathology.
 Dr. Carl Ten Broeck, associate in the department of animal pathology.
 Dr. Herbert D. Taylor, assistant in pathology and bacteriology.
 Dr. Oswald H. Robertson, assistant in pathology and bacteriology.
 Mr. Ernest A. Wildman, fellow in chemistry.
 Dr. Reginald Fitz, assistant in medicine and assistant resident physician.
 Dr. Arthur L. Meyer, assistant in physiology and pharmacology.

SCIENTIFIC NOTES AND NEWS

SURGEON-GENERAL RUPERT BLUE, of the Public Health Service, was elected president of the American Medical Association at the recent San Francisco meeting.

LORD FISHER, former first sea lord of the British admiralty, has been appointed chairman of an "inventions board," which will assist the admiralty in coordinating and encouraging naval science.

DR. VIKTOR VON LANG, emeritus professor of physics at Vienna, has been elected president of the Vienna Academy of Sciences. The academy has elected as corresponding members Dr. Sven Hedin, the Swedish explorer, Dr. Max Planck, professor of mathematical physics at Berlin, and Dr. P. H. von Groth, professor of mineralogy at Munich.

AMHERST COLLEGE at its recent commencement conferred its doctorate of laws on Professor Benjamin K. Emerson, class of 1865, for forty-five years teacher of geology in Amherst College.

SHERBURNE WESLEY BURNHAM, for twenty years professor of practical astronomy in the University of Chicago and astronomer in the Yerkes Observatory, was given the honorary degree of doctor of science, at the commencement of Northwestern University.

IN conferring the Harvard doctorate of science on Dr. Frank Billings, President Lowell said: "Frank Billings, physician and citizen of Chicago; powerful in his profession and his community, who has inspired medical research, improved medical administration in his own state and promoted a higher grade of medical education throughout the land."

GENERAL WILHELM GRONER, head of the field railways of the German army, has been given honorary degrees by the University of Berlin and the Technical Institute of Stuttgart.

AMONG the fellows of the Royal Sanitary Institute recently elected are Dr. Julian Arce, director of the Department of Public Health of the Peruvian Republic, and Dr. Frank Fairchild Westbrook, president of the University of British Columbia.