

Professor Kendall reported that a heat sterilizable protein medium (K medium) had been prepared for the cultivation of bacteria. Organisms, some in the filterable state, had been grown from the blood of cases of influenza, common cold, measles (in one instance thirty hours before the appearance of the rash), rheumatic fever, arthritis and endocarditis. Also, Staphylococci had been obtained in non-filterable states from Staphylococcus bacteriophage and Besredka (Staphylococcus) antiviral. Laboratory cultures of *B. typhosus*, *B. coli*, Staphylococci and Strep-

tococci, grown in K medium, had been rendered filterable through Berkefeld filters. After filtration, these organisms, by suitable procedure, had been regained in non-filterable form.

The lecturer reported that many bacteria pathogenic for, or parasitic upon man and lower animals may and do exist in two states, filterable and non-filterable. A chemical explanation for the existence of these two states, filterable and non-filterable, was proffered, and relation of these two states to microbial existence and infection was indicated.

SCIENTIFIC NOTES AND NEWS

DR. WILLIAM H. HOWELL, who recently retired as director of the Johns Hopkins University School of Hygiene and Public Health, has accepted the chairmanship of the medical section of the National Research Council. Dr. Howell has also been elected chairman of the executive committee of Science Service.

DR. JAMES T. JARDINE, director of the Oregon Experiment Station at Corvallis, has been appointed director of the Bureau of Experiment Stations of the U. S. Department of Agriculture. He succeeds Dr. E. W. Allen, who died more than a year ago. Mr. Jardine has also been appointed assistant director of scientific work in the department. He is a brother of Dr. William M. Jardine, formerly Secretary of Agriculture, who is now minister to Egypt.

At the commencement of Oberlin College, the doctorate of science was conferred on Dr. Charles E. St. John, astronomer of the Mt. Wilson Observatory of the Carnegie Institution.

THE University of Liverpool will confer in December the degree of doctor of laws on Dr. C. G. Barkla, professor of natural science in the University of Edinburgh.

DR. CORNELIUS BETTEN, since 1923 director of resident instruction, has been named acting dean and director of the State Colleges of Agriculture and Home Economics at Cornell University to fill the vacancy created by the promotion of Dean Mann to the office of provost of the university. Dean Mann will take up his new duties on August 1, and Dr. Betten will serve until a permanent dean is chosen.

DR. F. W. DEWOLF, formerly state geologist of Illinois, has been appointed head of the department of geology at the University of Illinois, to succeed Dr. W. S. Bayley, who has retired.

DR. ROBERT TAIT MCKENZIE, professor of physical therapy and physical education in the University of

Pennsylvania School of Medicine, has been appointed research professor of physical education.

DR. ALFRED R. RADCLIFFE-BROWN, the British ethnologist, now of the University of Sydney, Australia, has been appointed professor in the department of anthropology of the University of Chicago. He will give courses on "Primitive Society," "Primitive Religions," "Ethnology of Africa," "The Australian Tribes," "Family, Kin and Clan," and "Economic and Political Institutions of Primitive Peoples."

DR. PAUL A. WARREN, professor of botany at the College of William and Mary, has been appointed professor of botany at Tufts College.

PROMOTIONS to full professorships at the University of Chicago include: A. S. Romer, geology; R. S. Mulliken, physics; B. H. Willier, zoology; and H. E. Hayward, M. C. Coulter and J. M. Beal, botany.

DR. ALLAN C. G. MITCHELL, who has been fellow of the Bartol Research Foundation of the Franklin Institute for the past three years, has been appointed assistant professor of physics at New York University.

DR. C. W. STILES, of the U. S. Public Health Service, who will go on the retired list on August 1 after forty years of active service, has altered the plans recently announced in SCIENCE. His permanent address in the future will be Washington, D. C.; he will be in Winter Park, Florida, during the winter months.

PROFESSOR F. EASTON CARR, head of the astronomy department of Oberlin College, will spend his sabbatical year at Mt. Wilson Observatory in California.

DR. WILLIAM MANN, director of the National Zoological Park at Washington, D. C., sailed on July 22 for Georgetown, British Guiana, to obtain specimens for the Guiana group of the park. He was accompanied by Mrs. Mann and Frank Lowe, assistant head keeper at the zoo, who will aid in capturing and caring for the animals obtained.