

the Department of Defense. The transfer affects approximately 1600 members of the Bureau's staff. The four divisions, whose work has accounted for more than half of the Bureau's \$50 million annual budget, are ordnance development (division 13), missile development (division 15), electrochemical development (division 16), and electronic ordnance (division 17).

Announcement of the transfer was made on July 24th in a statement released jointly by Secretary of Commerce Sinclair Weeks and Secretary of Defense Charles E. Wilson. "This transfer," they said, "is in accordance with recommendations made by Mervin J. Kelly, chairman of the special committee established by the Secretary of Commerce to evaluate the present functions of the National Bureau of Standards in relation to the present national needs." It was indicated that reasons existed for announcing the transfer prior to release of the Kelly committee's report, which is expected to appear sometime this month, but no further justification was offered for the action or for its timing. Neither was there any specific suggestion that the transfer had been recommended by the full committee or by any of its members other than Dr. Kelly.

Mr. Wilson and Mr. Weeks indicated that the transferred functions of the Bureau would be carried out under the direction of the chief of ordnance for the Army, but that for the present no attempt would be made to move the scene of these ordnance activities from the laboratory buildings of the Bureau of Standards. It was also indicated that the Department of Defense will continue to call upon the Bureau for assistance in defense research and development programs in fields other than ordnance.

Scientific Translations

First Group Made Available

The first set of translations of Russian scientific papers has been completed and copies may be obtained for 10 cents each from the Office of Technical Services, Department of Commerce, Washington 25, D. C., it has been announced by the National Science Foundation, sponsors of the program. The first twenty of these translations, all from *Doklady Akademii Nauk SSSR*, are listed below:

Gaponov, A. V., "A Dynamical Model of the General Theory of Electric Machines", **89**, 45 (1953) (NSF-tr-1, June 1953)

Ivanenko, D. and Larin, S., "Theory of the Periodic System of the Elements", **88**, 45 (1953) (NSF-tr-1, June 1953)

Arkharov, V. I., Ignatyeva, S. I., and Kozmanov, Yu. D., "Thermal Fatigue of Single Crystals of Aluminum", **88**, 439 (1953) (NSF-tr-3, June 1953)

Ivanenko, D., Kurdgelaidze, D., and Larin, S., "Observations on Nonlinear Meson Dynamics", **88**, 245 (1953) (NEF-tr-4, June 1953)

Goldman, I. I., "On Spectroscopic Determination of the Quadrupole Moments of Nuclei", **88**, 241 (1953) (NSF-tr-5, May 1953)

Vaisman, I. A., "Effect of Nucleon Orbits on Slow Neutron Capture Cross Sections and on Spin of Odd-Odd Nuclei", **88**, 431 (1953) (NSF-tr-6, May 1953)

Borovsky, I. B. and Golovner, T. N., "Multiplicity in X-Ray Emission Spectra", **88**, 233 (1953) (NSF-tr-7, June 1953)

Kharanen, V. Ya., "Sound Propagation in a Medium with Random Fluctuations of the Refractive Index", **88**, 253 (1953) (NSF-tr-8, June 1953)

Buinov, N. N. and Savinykh, V. P., "Effect of Plastic Deformation on Subsequent Decomposition in Aluminum Alloys Al-Si and Al-Mg-Si", **88**, 257 (1953) (NSF-tr-9, June 1953)

Motylev, Yu. L., "On the Creep of Soil", **88**, 441 (1953) (NSF-tr-10, June 1953)

Katsenelenbaum, B. Z., "Wave Guides with Nonideal Walls", **88**, 37 (1953) (NSF-tr-11, June 1953)

Sverdlov, L. M., "Relations Between Moments of Inertia and Rotation Frequencies of Isotopic Molecules", **88**, 249 (1953) (NSF-tr-12, June 1953)

Vysokovsky, D. M., "Experimental Investigation and Design of 'Wave-Canal' Antennas", **89**, 41 (1953) (NSF-tr-13, June 1953)

Zeldovich, Ya. B., "Nucleon Isobars as Intermediate States in Beta-Decay", **89**, 33 (1953) (NSF-tr-14, June 1953)

Khrushchov, M. M. and Babichev, M. A., "Resistance to Abrasive Wear and the Hardness of Metals", **88**, 445 (1953) (NSF-tr-15, June 1953)

Vaisman, I. A., "Certain Regularities in Nuclear Spin and a Nuclear Shell Model", **88**, 237 (1953) (NSF-tr-16, May 1953)

Tyabin, N. V., "Motion of a Sphere in a Visco-Plastic Liquid Dispersion System", **88**, 57 (1953) (NSF-tr-17, June 1953)

Zarembo, K. S., "An Estimate of Displacements and Deformations of Underground Gas Conduits Due to Temperature", **89**, 53 (1953) (NSF-tr-18, June 1953)

Osipov, K. A., Fedotov, S. G., and Lozinsky, M. G., "On a 'New' Mechanism of Plasticity of Metallic Solid Solutions", **89**, 57 (1953) (NSF-tr-19, June 1953)

Fok, M. V., "Wide-Angle Interference from a Quadrupole Source of Light", **89**, 439 (1953) (NSF-tr-20, June 1953)

In addition to contracting with Columbia University for translations from the Russian, the National Science Foundation's Office of Scientific Information has established a Scientific Translations Center in the Library of Congress to aid in the dissemination of foreign technical literature. The major emphasis of the Center will be on Russian journals initially, although it is hoped that other languages will be covered extensively in the future. Monthly lists of translations acquired by the Center will be issued, and photostat and microfilm copies will be made available. Inquiries may be addressed to the Scientific Translations Center, Science Division, Library of Congress, Washington 25, D. C.

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30-Year Cumulative Index Available

A two-volume name and subject cumulative index of all papers appearing in *The Physical Review* from 1921