

Pod'yachikh, P.

AUTHOR: Pod'yachikh, P.

2-1-3/9

TITLE: The Selective Experimental Census and Its Results (Ob itogakh vyborochnoy probnoy perepisi naseleniya)

PERIODICAL: Vestnik Statistiki, 1958, # 1, p 27-42 (USSR)

ABSTRACT: The article deals with the experimental census carried out in August 1957 in 7 Soviet districts to gain experience and to ensure a smooth execution of the forthcoming USSR census in January 1959.

The chosen districts were the following: the Chekhovskiy rayon, Moskovskaya oblast'; Kaytag'skiy rayon, Dagestanskaya ASSR; Bolotninskiy rayon, Novosibirskaya oblast'; Stalinskiy rayon, Akmolinskaya oblast', Kazakhskaya SSR; Tukumskiy rayon, Latviyskaya SSR; Nevskiy rayon, in Leningrad and the town of Stalino, Ukrainskaya SSR. The population of these districts totaled about 1,020,000 men, 87 % of them were living in towns and 13 % in rural districts. The Nevskiy district in Leningrad and the town of Stalino are industrial districts, the remaining agricultural ones.

The census was carried out by 2,300 men, 1,897 of them were census takers and 312 instructors and supervisors. With the exception of 515 students from the Moscow Economical

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The Selective Experimental Census and Its Results

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Statistics Institute, the quality of the census takers was not very high, some had not been acquainted with their duties, others did not attend the instruction meetings, many unsuitable census takers had to be exchanged. The public information was bad, but in general the experimental census is told to have been successful, because it provided the necessary experience for the general census in January 1959.

AVAILABLE: Library of Congress

Card 2/2

POD"YACHIKH, P.

The all-Union census. Sots.trud no.12:24-35 D '58.

(Russia--Census)

(MIRA 13:4)

~~POD"YACHIKH, P.~~

Population of the Soviet Union. Vop.skon. no.5:33-42 № '59.
(MIRA 12:9)

1. Zamestitel' nachal'nika Tsentral'nogo statisticheskogo upravleniya SSSR, nachal'nik Upravleniya po provedeniyu Vsesoyuznoy perepisi naseleniya.
(Russia--Population)

POD'YACHIKH, PETR GAVRILOVICH

Naseleniye SSSR. Moskva, Gospolitizdat, 1961.
189 p. illus., charts, graphs, tables.
Bibliographical footnotes.

POD"YACHIKH, P.

Labor resources of the U.S.S.R. Sots. trud 6 no. 2:12-20 F '61.
(MIRA 14:2)

1. Chlen kollegii Tsentral'nogo statisticheskogo upravleniya SSSR,
nachal'nik.Upravleniya po provedeniyu Vsesoyuznoy perepisi
naseleniya.

(Manpower)

POD"YACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; KUSHKINA,
R.I., red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 all-Union population census; the
Azerbaijan S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia
1959 goda; Azerbaidzhanskaia SSR. Moskva, Gosstatizdat,
1963. 157 p. (MIRA 16:5)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye
upravleniye. 2. Chlen Kollegii TSentral'nogo statistiche-
skogo upravleniya SSSR, nachal'nik Upravleniya po provede-
niyu Vsesoyuznoy perepisi naseleniya (Pod"yachikh).
(Azerbaijan—Census)

PODNYACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; KUSHKINA, R.I.,
red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 all-Union population census; the Kirghiz
S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia 1959 goda;
Kirgizskaia SSR. Moskva, Gosstatizdat, 1963. 149 p.
(MIRA 16:5)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye
upravleniye. 2. Chlen Kollegii Tsentral'nogo statisticheskogo
upravleniya SSSR, nachal'nik Upravleniya po provedeniyu Vse-
soyuznoy perepisi naseleniya (Podnyachikh).
(Kirghizistan--Census)

OREKHOV, K.A.; MAKSIMOV, G.M.; NESLUKHOVSKIY, S.K.; ROZDYALOVSKAYA,
V.V.; SMIRNOV, K.A.; VEYS, L.V.; ANTYUFYEVA, A.M.; KURGANOV,
M.A.; STEPANOVA, Ye.A.; VOSTRIKOVA, A.M.; SAKHAROVA, V.V.;
POD*YACHIKH, P.G.; OREKHOV, K.A., *otv. za vypusk*; CHUPROVA,
Yu.S., *red.*; PYATAKOVA, N.D., *tekhn. red.*

[Results of the 1959 All-Union population census; the Kazakh
S.S.R.] Itogi Vsesoiuznoi perepisi naselenia 1959 goda;
Kazakhskaiia SSR. Moskva, Gosstatizdat, 1962. 201 p.

1. Russia (1923- U.S.S.R.)TSentral'noye statisticheskoye
upravleniye. (MIRA 16:4)

(Kazakhstan--Census)

POD*YACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; SOLDATOV,
V.A., red.; KAPRALOVA, A.A., tekhn. red.

[Results of the 1959 all-Union population census; The
Moldavian S.S.R.] Itogi Vsesoiuznoi perepisi naselenia
1959 goda; Moldavskaya SSR. Moskva, Gosstatizdat, 1962.
103 p. (MIRA 16:3)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye
upravleniye. Chlen Kollegii Tsentral'nogo statistiche-
skogo upravleniya pri Sovete Ministrov SSSR, nachal'nik
Upravleniya po provedeniyu Vsesoyuznoy perepisi naseleniya
(for Pod*yachikh).

(Moldavia-Census)

POD"YACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; SOLDATOV, V.A.,
red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 all-Union population census; the Tajik
S.S.R.] Itogi Vsesoiuznoi perepisi naselenia 1959 goda;
Tadzhikskaya SSR. Moskva, Gosstatizdat, 1963. 139 p.

(MIRA 16:5)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye
upravleniye. 2. Chlen Kollegii Tsentral'nogo statisticheskogo
upravleniya SSSR, nachal'nik Upravleniya po provedeniyu Vse-
soyuznoy perepisi naseleniya (Pod"yachikh).

(Tajikistan--Census)

POD"YACHIKH, P.G., red.; OREKHOV, K.A., otv. za vypusk; SOLDATOV,
V.A., red.; PYATAKOVA, N.D., tekhn. red.

[Results of the 1959 all-Union population census; the
Georgian S.S.R.] Itogi Vsesoiuznoi perepisi naseleniia
1959 goda; Gruzinskaya SSR. Moskva, Gosstatizdat, 1963.
161 p. (MIRA 16:5)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye
upravleniye. 2. Chlen Kollegii Tsentral'nogo statistiche-
skogo upravleniya SSSR, nachal'nik Upravleniya po prove-
deniyu Vsesoyuznoy perepisi naseleniya (Pod"yachikh).
(Georgia--Census)

PODYACHIKH, P. G.

"Organization of population statistics and its importance in planning economic and cultural development" (B.1); (2) "Organization of statistical services"

report to be submitted for the United Nations Conference on the Application of Science and Technology for the Benefit of the Less Developed Areas - Geneva, Switzerland, 4-20 Feb 63.

TAREYEVA, I.Ye.; PRISS, I.S.; ROZANOVA, L.B.; ARBENINA, N.S.; ROZENBLAT,
V.M.; POD'YAGEL', M.I.

Outcome of Botkin's disease. Vop.med.virus. no.9:254-259 '64.

(MIRA 18:4)
1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. B.M.
Taroyeva.

PODYAK, M.F.

Device for making semi-turns for handrailings. Rats. 1 izobr.
predl. v stroi. no.71:3-6 '53. (MIRA 9:6)
(Handrailing)

1ST AND 2ND ORDERS 3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

15

CA

An apparatus for the determination of the moisture penetration through the soil under field conditions. K. Knyazyuk and M. Pod'yakonov. *Pedology* (U. S. S. R.) 29, 129-35 (in German 135-6) (1934).—K. and P. describe and illustrate the app. J. S. Joffe

COMMON ELEMENTS

COMMON VARIABLES INDEX

ASIS-ILA METALLURGICAL LITERATURE CLASSIFICATION

FROM SUBJECTS

FROM AUTHOR

1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

1ST AND 2ND LETTERS

3RD AND 4TH LETTERS

FROM SUBJECTS

FROM AUTHOR

1ST AND 2ND LETTERS

3RD AND 4TH LETTERS

19

The methods of determination of the setting of clays.
M. Velkov and M. Podyakov. *Opyasovani* 3, No. 11,
44(1984).
E. E. Stefanovsky

ASM-51A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND CROSS
3RD AND 4TH CROSS
5TH AND 6TH CROSS

COMMON ELEMENTS
COMMON VARIABLE ELEMENTS

COMMON ELEMENTS
COMMON VARIABLE ELEMENTS

1ST AND 2ND CROSS
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5TH AND 6TH CROSS

1ST AND 2ND CROSS
3RD AND 4TH CROSS
5TH AND 6TH CROSS

VOLKOV, M.I., prof.; POD'YAKONOV, M.M., starshiy nauchnyy sotrudnik

Granite gravel as a local road material. Avt. dor. 22 no.9:16-17
S '59. (Roads, Gravel) (MIRA 12:12)

POD'YAKONOV, S.Ia.

POD'YAKONOV, S.Ia. Po Aldanu i Oleknie: soobshchenie, pročitannoe v obsnchem sobranii chlenov Vostochno-Sibirskago otdiela. [Imperatorskago Russkago Geograficheskago Obshchestva] 20-go dekabria 1899 g. Irkutsk, 1900. 24 p.
"Izvlacheno iz 'Izviestii' Vostochno-Sibirskago otdiela ... T. 31, vyp. 1, 1900 g."

DLC: DK771.Y18P6

So: LC, Soviet Geography, Part II, 1951/Unclassified

POD'YAKONOV, V.S., inzhener.

Lifting wall slabs of 500 m² in building apartment houses. Stroi.
prom. 33 no.9:47-48 S '55. (MLRA 9:1)
(Canada--Concrete construction)

POD'YAKONOV, V. S.

POS'YAKONOV, V. S.: "Investigation of the design solutions, preparation, and installation of the parts of large-panel residence houses (on the basis of an experiment in designing and building large-panel houses)." Executive Committee, Moscow City Soviet of Workers Deputies. Moscow Inst of Municipal Construction Engineers of the Moscow City Executive Committee. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE).

So.: Knizhnaya Letopis', No. 25, 1956.

TELEZHNIKOV, Vasilii Yevgen'yevich; ~~POD-YAKOVLEV, V.S.~~ redaktor; KONYA-SHINA, A., tekhnicheskii redaktor

[Foundations for equipment in small and medium-sized electric power stations] Fundamenty pod oborudovanie elektrostantsii mal'kh i srednikh moshchnostei. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1956. 149 p. (MIRA 9:4)
(Electric power plants) (Foundations)

POD"YAKONOV, V.S., kand. tekhn. nauk.

Results of the competition for a prefabricated large-panel apartment
house. Stroi. prom. 36 no.3:34-39 Nr '57. (MIRA 1:3)
(Architecture--Competitions) (Apartment houses)

POJ"YAKONOV, V.S., kand. tekhn. nauk.

"Structural elements of multi-story frame-and panel apartment houses"
by G.Kusnetsov, N.V. Morozov, T.P. Antipov. Reviewed by V.S.
Pod"iakonov. Stroi. prom. 36 no.2:46 P '58. (MIRA 11:2)
(Apartment houses)
(Kusnetsov, G.) (Morozov, N.V.) (Antipov, T.P.)

POD"YAKONOV, Vladimir Sergeevich, dots., kand. tekhn. nauk;
DRACHUK, I.N., red.

[Assembling large-panel apartment houses] Montazh krupno-
panel'nykh domov. Moskva, Vysshaya shkola, 1964. 186 p.
(MIRA 18:2)

POD'YAKONOVA, I. M., Cand Biol Sci -- (diss) "Wireworms and pseudo-wireworms of the eastern regions of the Khar'kovskaya Oblast and means of combatting them." Khar'kov, 1960. 15 pp; (Khar'kov Order of Labor Red Banner Agricultural Inst im V. V. Dokuchayev); 200 copies; free; (KL, 29-60, 125)

POD'YAKOV, A.S.

KRISTOV, V.S., otvetstvennyy red.; BELYAKOV, A.A., red.; GROSHEV, N.I., red.; NOSOV, R.P., red.; POD'YAKOV, A.S., red.; ROGOVIN, N.A., red.; STEKLOV, V.Yu., red.; TISTROVA, O.N., red.; FRIDKIN, A.M., tekhn. red.

[Electric power development in the U.S.S.R. during the past 40 years, 1917-1957] Energeticheskoe stroitel'stvo SSSR za 40 let (1917-1957 gg.) Moskva, Gos. energ. izd-vo, 1958. 397 p. (MIRA 11:5)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy.
Tekhnicheskoye upravleniye.
(Electric power)

GOLOVIZNIN, Vladimir Aleksandrovich; STYTS'KO, Petr Mitrofanovich;
POD'YAKOV, A.S., red.; LARIONOV, G.Ye., tekhn. red.

[Labor input and cost of concrete work in hydraulic engineering construction] Trudoemkost' i sebestoimost' betonnykh rabot v gidrotekhnicheskom stroitel'stve. Moskva, Gosenergoizdat, 1962. 159 p. (MIRA 16:1)
(Concrete construction) (Hydroelectric power stations)

AUTHOR: Pod'yakov, S. N., Engineer SOV/91-59-2-4/33

TITLE: The Reduction of the Personnel Force in a TsES (Umen'sheniye
chislennosti personala na TsES)

PERIODIC: Energetik, 1959, Nr. 2, p 10 (USSR)

ABSTRACT: The author describes in general terms a number of measures
introduced in a small-capacity power plant for bettering
the work process. These in turn resulted in a simplification
of work duties, consolidation of more operations in
the hands of one person, etc, and considerably reduced the
personnel strength.

Card 1/1

KURTSMAN, Ya.A., inzh.; POD'YAKOV, S.N., inzh.

Outdoor installation of a feed-water economizer. Prom.energ.
17 no.5:37 My '62. (MIRA 15:5)
(Boilers)

CHUDKOV, N., ГОДИЯРОВА, Р., НОЧИАЛОВ, К.

Railroads - Employees

Work with youth. Klub No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952. ~~1953~~, Uncl.

PCD'YAPOL'SKAYA,

Slag cement

Stucco grouts on lime-slag cement. *Enl. stroi. tekhn.* 10, No. 6, 1953.

Monthly List of Russian Accessions, Library of Congress
June 1953. UNCL.

CH

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Thermal decomposition of methyl hydrogen peroxide. S. Medvedev and A. Podyapokhaya. *Acta Physico-chim. U. R. S. S. T.* 257-306 (1950) (German).—A stream of pure N was passed through MeOOH, by 29-31°, $\eta = 1.3041$, and then through a reaction tube of supramax temp. heated to 200-300°. The products of reaction are MeOH, Me₂O, HCHO, HCO₂H, O₂, CO, CO₂, and H₂O but no H₂ or CH₄. MeOOH was detd. by reaction with 1 cc. 25% H₂SO₄ and 1.5 cc. 10% KI, left standing for 1 hr. and then titrated with Na₂S₂O₃ soln. The value so found is then 78.9%, 80.2% and 90.8% of the true concn. of MeOOH for 0.2, 0.1 and 0.05% solns., resp. (cf. Kieche and Hitz, *C. A.* 24, 1078). HCHO was detd. iodometrically in alkali. A correction for MeOOH was made. HCO₂H was converted to the Na salt, and then detd. by the KMnO₄-KI-Na₂SO₃ method, and a 4% correction factor applied. Gases were detd. in a Schmidt app. The C-H balance was always good for the sum of the products. The compn. of the products of the reaction

for various times of contact at temps. from 200° to 300° indicates that the amt. of MeOH rises to 62%, then slowly falls to 40% and less, CO rises to 23%, Me₂O very slowly rises to at least 25%, HCHO rises to 10%, and HCO₂H to 5% and CO₂ appears late, rises to 5% and then slowly decreases again. The sum of MeOH and Me₂O after the max. of MeOH is const. With increasing temp. of decompn. the amt. of Me₂O increases and MeOH decreases but the sum increases; O₂ increases. HCO₂H decreases to 5%, CO is const., CO₂ increases. These results indicate 2 processes, viz., MeOOH = CH₃O + H₂O, MeOOH + HCHO = MeOOCCH₂OH = HCO₂H +

MeOH, and HCO₂H = CO + H₂O with an over-all activation energy of 10,950 cal. and k_1 0.0108 at 280°, 0.0812 at 300° and 2MeOOH = 2MeOH + O₂, 2MeOH = Me₂O + H₂O, 2CO + O₂ = 2CO₂, with $E = 25,330$ cal. and $k_2 = 7.00$ at 200° and 812 at 300°. F. H. R.

ASH-31A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

CA

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Oxidation of tetrahydroperoxides in condensed phase. S. Medvedev and A. Fedotkin. *J. Phys. Chem.* (U. S. S. R.) 13, 719-37 (1959); *cf. C. A.* 33, 800P. — Oxidation by O at 65-95° yields chiefly tetraalkyl peroxide (I) and tetralone (II); no acids or aldehydes are formed. I accelerates the reaction, but II, which is formed by the decomposition of I, retards it by an amt. that rises and then becomes const. as the concn. of II increases. The oxidation can be resolved into two independent stationary chain reactions. One arises from the thermal activation of tetraalkyl peroxide, is retarded by II, and proceeds by a mechanism similar to that of the oxidation of AcH (*cf. Bodenstein, C. A.* 23, 2804), and the 2nd depends on the decomposition of a complex formed on the wall by collision of a I mol. with an adsorbed II mol., and is accelerated by II. Both reactions lead to the accumulation in the system of I, which gives the oxidation an autocatalytic character. B. C. P. A.

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS INDEX

OPEN

CROSS REFERENCE

1ST AND 2ND ORDERS

POD'YAPOL'SKAYA, Antonina Andreyevna; UVAROVA, A.V.

[Treatment and prevention of deformations of the spine in children]
Opyt lechenia i profilaktiki deformatsii pozvonochnika u detei.
Moskva, Medgiz, 1960. 154 p. (MIRA 14:7)
(SPINE—ABNORMALITIES AND DEFORMITIES)

POD'YAPOL'SKAYA, E. P.

P

Shifrovannaya perepiska v Rossii v pervoy chetverti
XVIII veka.

(IN: Akademiya Nauk SSSR. Institut Istorii. Pro-
blemy istochnikovedeniya. vol. 8 (1959) (314)-342)
Bibliographical footnotes.

ПОДЪЯВИТЕЛИ ИЛИ АВТОРЫ НАУЧНЫХ СТАТЕЙ

KOZ'MINA, Natal'ya Petrovna, doktor biol.nauk, prof.; KUPRITS, Yakov Nikolayevich, doktor tekhn.nauk, prof.; MISHUSTIN, Yevgeniy Nikolayevich, doktor biol.nauk, prof.; POD'YAPOL'SKAYA, Ol'ga Petrovna, kand.tekhn.nauk; KHUSID, Semen Davidovich, doktor tekhn.nauk; GEL'MAN, D.Ya., red.; GOLUBKOVA, L.A., tekhn.red.

[Development of grain science in the U.S.S.R.; a collection of articles] Razvitie nauki o zerne v SSSR; sbornik statei. Pod red. N.P.Koz'minoi. Moskva, Izd-vo tekhn.i ekon. lit-ry po voprosam mukomol'no-krupianoi i kombikormovoi promyshl. i elevatorno-skladskogo khoziaistva, 1957. 129 p. (MIRA 11:7)

1. Chlen-korrespondent AN SSSR (for Mishustin)
(Grain)

USSR / Microbiology. General Microbiology. Effect of External Agents. Disinfection. F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5433.

Author : Poduyapol'akaya, O. P.
Inst : All-Union Scientific Research Institute of Grain and Grain Products.
Title : Effect of Ionizing Radiations on Grain Microorganisms.

Orig Pub: Soobshch. i ref. Vses. n.-i. in-t zerna i produktov ego pererabotki, 1957, v'ip 1, 1-6.

Abstract: Wheat grains of various moisture contents (16-25%) were irradiated with x-rays and gamma rays in dosages of 10 thousand-2.5 million r. The number of bacteria in washings of grain following dosages of 10, 50, 500 thousand and 2.5 mil-

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USSR / Microbiology. General Microbiology. Effect of External Agents. Disinfection. F

Abs Jour: Ref Zhur-Biol., No 2, 1959, 5433.
APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001341520005-0"

Abstract: 10 million r. The decrease of the number of bacteria occurred chiefly among asporous forms, decreased correspondingly by 4-5, 10, 100, and 1,000-100,000 times. The effect of ionization increased with increased grain moisture. Chiefly the non-spore bacteria died, although even at the highest doses (2.5 million r) 20 to 45 viable bacteria were found in the washings of 1 g of grain, also including some asporous forms. Grains laid out on plates, irradiated with 2.5 million r, and having a moisture content of 25% were also overgrown with bacteria, mainly sporous ones. Activity of the fungal flora decreased in proportion to increased doses of irradiation, but also depended on the moisture; thus, with an

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S/670/62/000/029/006/006
D291/D307

AUTHOR: Pod'yapol'skaya, T.S.

TITLE: On the transmitted effect of X-ray irradiation on the tobacco mosaic virus in plant tissues

SOURCE: Akademiya nauk SSSR. Institut genetiki. Trudy. no. 29, 1962, 420-424

TEXT: An earlier investigation by the author (Trudy in-ta genetiki AN SSSR, no. 28) showed that a temporary reduction in TMV accumulation occurred in tobacco leaves exposed to doses of 5 kr or above. The present work was designed to show whether this depressive effect could be spread from an irradiated part of the leaf to adjacent protected parts. Isolated leaves of *Nicotiana tabacum* were used, five leaves being taken for each experiment. A strip 2-2.4 cm wide in the central part of one half of the leaf was irradiated, while adjacent portions were shielded by two lead plates. The other half of the leaf was completely protected by one of the lead plates during irradiation and served as a control. The dose applied was

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On the transmitted effect ...

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15 hr, the duration of exposure being 25 min. At fixed times (a) after irradiation, test and control material was infected with TMV, which was then permitted to accumulate under suitable conditions. The degree of accumulation was assessed by applying viral inocula from the exposed and protected strips of the experimental leaf halves and the corresponding strips of the control halves on different halves of 10 *N. glutinosa* leaves. Data are presented showing the average number of necroses induced per half-leaf of *N. glutinosa*, with (a) intervals ranging from 2 to 48 hours. The results clearly demonstrated that there was a marked reduction in TMV accumulation in the treated half-leaves in the protected portion as well as in the irradiated strips, and that this reduction was not influenced by (a) intervals of 2 to 24 hours. It was shown that the depressive effect on TMV accumulation in the tissues adjacent to the irradiated strip was a transmitted effect and was not caused by reflected diffuse radiation. Further tests are now in progress on the minimum time required for the transmitted effect to occur. There are 1 figure and 2 tables.

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POD"YAPOL'SKAYA, T.S.

Remote effect of X rays on the tobacco mosaic virus in plant tissues. Trudy Inst. gen. no.29:420-424 '62. (MIRA 16:7)

(Tobacco mosaic virus)
(Plants, Effect of X-rays on)

POD" YAPOL'SKAYA, T.S.

Indirect effect of X rays on the accumulation of tobacco mosaic virus
in tobacco leaves. Report No. 2. Trudy Inst. gen. no.30:310-314 '63.
(MIRA 17:1)

POD"YAPOL'SKAYA, T.S.

Accumulation of tobacco mosaic virus in plant tissues irradiated
with X rays. Trudy Inst. gen. no.31:359-369 '64. (MIRA 17:9)

32388
S/670/61/000/028/002/002
B103/B147

27.12.20

Pod'yapol'skaya T. S.

AUTHOR:

X-ray effect on the accumulation of tobacco mosaic virus in isolated tobacco leaves

TITLE:

Akademiya nauk SSSR. Institut genetiki. Trudy. no. 28. 1961, 283 - 288

SOURCE:

TEXT: The irradiation effect on leaves of *Nicotiana tabacum*, *N. glutinosa*, and *N. sylvestris* was studied. One half of ripe leaves was irradiated between moist filter paper in an РУП(RUP) x-ray apparatus with 510 - 640 kr/min, the other half being not irradiated, served as control. Dilute juice of tobacco leaves infested with the ordinary strain of tobacco mosaic virus (TMV) was the infection source. The relative virus quantity (virus titer) was determined by biological titration. Test series: Preliminary tests showed that virus accumulation at 26 - 28°C renders titration possible already after 24 hr and that the virus content in the irradiated and non-irradiated leaf halves was balanced already after four days. Test series 1: It has been found that the virus titer in the irradiated leaf halves was significantly reduced in all cases at doses of 5 - 100 kr, when the leaves

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were infected 45 hr after irradiation, at the latest. The titer decreases with increasing irradiation dose. Doses of less than 25 kr have only a transitory effect. Such doses have no influence on the number of local infection foci in *Nicotiana glutinosa*. From 24 hr after infection onward, the differences in TMV accumulation are gradually blurred and disappear finally (this holds also for *N. sylvestris* infected by the Aucuba strain of TMV). Preliminary irradiation of the leaves with 5 kr and more delays TMV accumulation. The Aucuba strain (contrary to the ordinary TMV strain) caused a necrotic reaction in *N. sylvestris*, but also in this instance the number of necrotic foci was not affected by irradiation. The delayed TMV accumulation in irradiated leaves of *N. glutinosa* and *N. sylvestris* as compared to the controls is proved, moreover, by the small size of the necrotic foci at the time of their formation. Test series II: The leaf halves were irradiated with 15 kr 1, 2, 5, 10, and 24 hr after infection. TMV accumulation occurred at 28°C. Titration was effected 24 hr after irradiation. It was not possible to establish a clear relation between titer reduction percentage and interval between infection and irradiation. Only a tendency to stronger inhibition of accumulation was found with shortening intervals between infection and irradiation. The infectious

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form of TMV is not directly inactivated in infected leaves by doses of 15 kr. Thus, irradiation inhibits those multiplication processes of TMV occurring yet before the infectious form develops. The effect of irradiation on the transformation of the noninfectious into the infectious form was cleared up in a further test (the latter form has been identified by K. S. Sukhov and O. S. Kapitsa, 1956. Dokl. AN SSSR, v. 110, no. 3; 1959 in sb. "Nasledstvennost i izmenchivost' rasteniy, zhivotnykh i mikroorganizmcy" (Heredity and variability of plants, animals, and microorganisms), v. I. M.). The tobacco leaves infected with a heat-tolerant TMV strain were kept for 72 hr at 34.5°C; the accumulation foci of the noninfectious form of TMV could be seen as yellow spots on the green background formed by the leaves. These spots were irradiated with 15 kr. The controls were non-irradiated equal pieces of the same leaves. Subsequently, both were exposed in the thermostat at 28°C for 2 and 4 - 4.5 hr. The noninfectious form of TMV is rapidly converted to the infectious one. After 2 hr exposure, the TMV titer in the irradiated yellow spots decreased rapidly. The number of necrotic foci related to the controls was 12 - 50% after 2 hr and 77 - 96% after 4 - 4.5 hr. Thus, the conversion of the noninfectious to the infectious form of TMV is inhibited by an irradiation dose of 15 kr.

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Also the retardation of TMV accumulation by irradiation shortly after infection may be due to this inhibition. This inhibition effects, however, no reduction of the total TMV concentration in the leaf. The study was made under the supervision of K. S. Sukhov. There are 2 tables and 6 references: 3 Soviet and 3 non-Soviet. The references to the English-language publications read as follows: Labaw L., Mosley V., Wyckoff R. 1953, Development of bacteriophage in x-ray inactivated bacteria. "J. Bacteriology", v. 65, N 3; Lauffer M., Trkula D, Buzell A., 1956. Mechanism of inactivation of tobacco mosaic virus by x-ray. "Nature", v. 177 N 4515; Luria R. 1955. Radiation and viruses. "Radiation Biology", VII, ch. 9. New York.

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(PETROLEUM WORKERS—DISEASES AND HYGIENE)

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A.A., red.; POD'YAPOL'SKAYA, V.P., red.; RYZHIKOV, K.M.,
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[Helminths in man, animals and plants and their control;
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[Tetraogallus of the Caucasus; an essay by a naturalist]
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chik, Kabardino-Balkarskoe knizhnoe izd-vo, 1962. 30 p.
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AUTHOR: Pod'yapol'skiy, G. S.

SOV/49-59-8-2/27

TITLE: The Propagation of Elastic Waves¹² in a Stratified Medium

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,
1959, Nr 8, pp 1103-1113 (USSR)

ABSTRACT: The solution of a formula expressing the intensity of the primary wave as defined by Sobolev (Refs 1 and 2) is considered. Exact solutions are found for the plane wave by means of an auxiliary variable θ (Eqs 13-25) and for the symmetric wave. The origin of the coordinates is placed at the source of waving as shown in Eqs (1) to (6) (Fig 1). The basic formulae are given as Eqs (7) to (12). The analysis of the complex variable θ in relation to the variables t, x, z (Eqs 26-32) shows that the properties of the functions $x(\theta)$ and $t(\theta)$ can be shown as in Fig 2 for a given z . There are 2 figures and 6 Soviet references.

ASSOCIATION: Akademiya nauk SSSR Institut fiziki Zemli
(Institute of Physics of the Earth, Ac.Sc., USSR)

SUBMITTED: September 10, 1957

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SOV/49-59-11-4/28

AUTHOR: Pod'yapol'skiy, G. S.

TITLE: On a Formula Combining the Coefficients of Reflection and Refraction of a Head Wave

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 11, pp 1560-1569 (USSR)

ABSTRACT: It is assumed that a plane boundary divides two elastic media denoted by n and $n + 1$ respectively. Their constants are the density ρ_j , and the velocities of longitudinal ($a_j = C_{pj}$) and transverse ($b_j = C_{sj}$) waves ($j = n$ or $n + 1$). The front of the plane wave has a relative velocity $1/\theta$ and moves along the boundary. Fig 1 shows that there can be eight waves with a given θ which can be distinguished by the number of medium (n or $n + 1$), sign (± 0), direction of motion and wave type (P or S). Each wave can thus be characterised by three suffixes: j, v, q , and the eight waves can produce eight possible combinations. The coefficients of reflection and refraction of these waves can be defined as Eq (1) where three pairs $j_1, q_1; j_2, q_2; j, q$, can be distinguished. The first pair has a fixed value (a given incident wave), the second pair can be found from

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the matrix, Eq (4) and the third pair can be determined from the four possible combinations. The solution of Eq (1) can be derived from Eq (6) and written in the final form as Eq (8). The coefficients of the head wave of the type q_2 in a medium j_2 correspond to the relative velocity $1/\theta = C_r = C_{j_r q_r}$ as expressed by Eq (9),

where $N_{j_1 q_1 j_2 q_2}(\theta)$ represents the coefficient $B_{j_1 q_1 j_2 q_2}(\theta)$ as shown in Eq (10). Thus 64 combinations

of $j_1, q_1; j_2, q_2$ are possible, which can be defined in relation to the systems N or M (Eq (11)). Thus the final formulae (16) to (19) can be obtained which express the relationship between the coefficients of head wave and those of reflected and refracted waves. As an example, the coefficients $\Gamma_{j_1 q_1 j_r q_r j_2 q_2}$ corresponding to an incident head wave and its derivatives are calculated for the media 1 and 2 (pp 1566-1569).

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