

BOGOMOLOV, G.V.; VALEDINSKIY, V.I.; KOCHNEV, S.S.; MANIS, M.N.; PANTELEYEVA,
Ye.N.; POPOV, I.V.; SYROVATKIN, V.G.; FOMICHEV, M.M.;
BOGORODITSKIY, K.F.; DUKHANINA, V.I.; KRASINTSEVA, V.V.;
MAKARENKO, F.A.; POKROVSKIY, V.A.; SILIN-DEKCHURIN, A.I.;
POMIN, V.M.; SHAGOYANTS, S.A.

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(Spinning machinery)

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prof., doktor tekhn.nauk, zasluzhennyy deyatel' nauki i tekhniki
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P. Davis (Cambridge, Mass.)

Handwritten signature

Source: **Mathematical Reviews.**

Vol 12 No 5

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kand.tekhn.nauk, red.; ARUTYUNOV, N.B., red.; TOMASHPOL'SKIY,
L.M., red.; POPOV, I.V., kand.ekonom.nauk, red.; CHUTKERASHVILI,
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GRAZHUL', V.S., red.; DANILOV, N.N., red.; RAKHMANINOV, G.I., red.;
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red.; TOMASHPOL'SKIY, L.M., kand.ekonom.nauk, red.; GOLOVINSKIY,
G.P., kand.tekhn.nauk, red.; SOKOLOV, Yu.S., kand.ekonom.nauk,
red.; CHUTKERASHVILI, Ye.V., kand.ekonom.nauk, red.; BERMEN'YEVA,
S.I., red.; ZAKHAROVA, L.S., red.; KOLCHINA, V.I., red.; POSPELOV,
Yu.S., red.; SMERTINA, N.I., red.; SOBOLEVA, N.M., tekhn.red.

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matsii.

(Great Britain--Economic conditions)

L 38957-66

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(N)

SOURCE CODE: UR/3186/65/000/120/0037/0054

AUTHOR: Popov, I. V.

ORG: none

TITLE: Use of hydrologo-morphological analysis when planning collector wells

SOURCE: Leningrad. Gosudarstvennyy gidrologicheskiy institut. Trudy, no. 120, 1965. Issledovaniya ruslovykh protsessov, 37-54

TOPIC TAGS: hydrology, geomorphology, waterway engineering

ABSTRACT: A hydrologo-morphological analysis (HMA) and a forecast of channel deformations which are made with respect to a specific section of a river on the basis of the typification of channel processes developed at GGI are effective means of solving many hydraulic engineering problems. They are most beneficial when it is planned to change the channel of a river. This article gives two particular examples which confirm the value of HMA and explain the means of applying this method in practice. HMA of channel deformation as applied to each case of a specific engineering problem reduces to establishing the type of channel process at the section of the river under consideration, to obtaining the quantitative characteristics of this process, and to eliciting their relationship with the deciding factors. As a

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result it becomes possible to judge, on the basis of readily accessible cartographic and hydrological material, the tendencies in the development of a river channel and to obtain its quantitative characteristics. This analysis is successfully used at early stages of planning to select optimal places, with respect to channel deformations, of locating hydraulic engineering structures or crossings for transmission lines and pipelines, and to select means to protect existing structures. The first case discussed pertains to the Ob' River near Barnaul on which the collector wells were situated on the concave bank of a bend at a deep section (12—14 m). A year after the start of construction it was found that a section of the convex bank situated above the collector wells was shifting downstream rapidly and was threatening them. Therefore systematic observations of the change of the river-bottom relief and hydraulic situation at the collector wells were started. The re-formation of the channel near the collector well was predicted and measures were worked out which would permit normal operation of the collector well. For these purposes HMA of the investigated sections of the river and laboratory investigations of various methods of protecting the collector wells were performed. The HMA reduced to establishing the type of channel process and of the investigated section, to obtaining the values of channel deformation, estimating the basic factors of channel formation, water status and sediment runoff, and their relationships with channel deformations. The results of this analysis are examined with respect to the type of channel process, (meandering) development of particular types of deformation and shifting of the river banks, and characteristics of the basic factors of channel formation. The HMA

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of the channel process permitted the conclusions that the location of the collector wells on the Ob' River were apparently selected without consideration of the basic tendencies of the channel process. The structures were situated immediately below a large creeping ridge which was probably taken for a section of the convex bank of the river bend. The analysis also revealed that with respect to the anticipated changes of the channel, the basic deformations of the river channel in the near future will be expressed by a shift of the river bend toward the right-bank flood plain accompanied by its downstream creep. The second case examined is the re-formation of the channel of the Oka River in the region above Dzerzhinsk where collector wells are planned. The HMA of this region showed that in the future the river bend that has started to develop in the region of the collector well can be expected to shift to the left and therefore the left bank will be eroded and the convex bank in the line of direction of the collector well will increase. This will result in the collector well being in an area of erosion for a long time and this process will stop only if considerable protective measures are taken. In both cases under consideration a an HMA made it possible to elicit, without long-term and expensive special field investigations, the schemes of the re-formations of the river channel and consequently the tendency of the development of the channel process, to establish the causes of this development, and to plan a system of protective measures. This in turn enables one to accomplish field and laboratory research needed for technical planning in a more purposeful manner since the problems involved are limited to a study of only individual details of the process which are most important for the development

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(Rivers)

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SO: U-3039, 11 Mar 1943

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(Water, Underground)

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[Studies of waves on seas, lakes and reservoirs by means of the stereophotogrammetry; a practical manual] Issledovanie volnenia na moriakh, ozerakh i vodokhranilishchakh metodom stereofotogrammetricheskoi s"emki; prakticheskoe posobie. Leningrad, Gidrometeorologicheskoe izd-vo, 1955. 224 p. (MLRA 8:12)
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Yefrosin'ya Andreyevna; DOMANITSKIY, A.P., kandidat geografiche-
skikh nauk, redaktor; YASNOGORODSKAYA, M.M., redaktor; PLAUM, M.Ya.,
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[Principles of hydrographic deciphering of aerial photographs]
Osnovy gidrograficheskogo deshifrirovaniia aerofotosninkov. Pod
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1956. 343 p. (MLRA 9:9)

(Photogrammetric pictures)
(Hydrographic surveying)

1994. 2. 1.

14-57-7-14485

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,
p 36 (USSR)

AUTHOR: Popov, I. V.

TITLE: Translocation of River Meanders (O formakh peremesh-
cheniya rechnykh izluchin)

PERIODICAL: Tr. Gos. gidrolog. in-ta, 1956, Nr 56 (110), pp 36-67

ABSTRACT: The article presents results obtained in determining
a former river course. (RZhGeo., 1956, 9862). By the
term "meandering" we understand the alteration in the
plan of a river course, which takes place according
to certain definite rules by means of formation of
streamlined bends of a river. Normally, this process
results in the development of a flood plain. By way
of examples, the author presents the alterations in
the courses of the Oka, Tavda, Luga, and North Donets.
He points out that the character of course shifting is

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Translocation of River Meanders (Cont.)

intimately related to the river's position on the bottom of the valley, to the geological structure of the valley sides, to the course alterations in the adjacent stretches of the river and to the distribution of solid load of the river. One of the common forms in the alignment of a river consists of an S-curve in which the central part remains in place when the river passes from one loop on the S-curve to the other. Old flood plains, river terraces, and the sides of the valley may interfere with the translocations of a river course. Slightly bent local meanders may be formed in the narrows and in the widenings of a valley. The main features of the alterations in the plan of a river course within short distances are: 1) meander-limiting conditions which consist of the geological structure peculiarities of the valley and of the traces of the former river activity; 2) nonuniformity in the distribution of solid river load over the length of the course, this nonuniformity being caused by the variety of load contributed by the runoff area and by the nature of the river itself. In estimating and forecasting the

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POPOV I.V.
POPOV, I.V.

Morphologic features of the rivers of plains. Trudy GGI no.56:58-74
'56. (MLRA 10:8)

(Rivers)

Popov, I.V.

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PHASE I BOOK EXPLOITATION

SOV/1655

Akademiya nauk SSSR. Komitet po geodezii i geofizike.

Tezisy dokladov na XI General'noy assambleye Mezhdunarodnogo geodezicheskogo i geofizicheskogo soyuza. Mezhdunarodnaya assotsiatsiya nauchnoy gidrologii (Abstracts of Reports Submitted to the 11th General Assembly of the International Union of Geodesy and Geophysics. The International Association of Scientific Hydrology) Moscow, 1957. 101 p. /Parallel texts in Russian and English or French/ 1,500 copies printed.

No additional contributors mentioned

PURPOSE: This booklet is intended for hydrologists and civil engineers.

COVERAGE: This collection of abstracts covers reports presented at the 11th General Assembly of the International Union of Geodesy and Geophysics on hydrological, erosional, and glaciological processes. Studies related to problems of underground waters, snow, and rivers are also discussed. The abstracts are: in Russian, with English or French translations. Those appearing in English are designated by a single asterisk; those in French by two. There are no references given.

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AVAILABLE: Library of Congress (GB653.A37)

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MM/gap

ROGOZIN, Ivan Stepanovich; POPOV, I.V., doktor geol.-min.nauk, otv.red.;
FILIPPOVA, B.S., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Landslides of Vol'sk] Vol'skie opolzni. Moskva, Izd-vo AN SSSR.
1958. 98 p. (Akademia nauk SSSR.Laboratoriia gidrogeologiches-
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(Vol'sk region--Landslides)

POPOV, Igor' Vladimirovich; DOMANITSKIY, A.P., otv. red.; ROGOVSKAYA,
Ye. G., red.; VLADIMIROV, O.G., tekhn. red.

[Nile River] Reka Nil. Leningrad, Gidrometeor. izd-vo, 1958. 112 p.
(MIRA 11:12)

(Nile River)

URYVAYEV, V.A., kand.tekhn.nauk, otv.red.; ALEKIN, O.A., red.; VELIKANOV, M.A., red.; BLIZNYAK, Ye.V., red.; BORSUK, O.N., kand.geogr.nauk, red.; DAVYDOV, L.K., red.; DOMANITSKIY, A.P., red.; KALININ, G.P., red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.; MANOIM, L.F., red.; MENKEL', M.F., red.; ORLOV, B.P., red.; POPOV, I.V., red.; PROSKURYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A., red.; CHEBOTAREV, A.I., red.; CHERKAVSKIY, S.K., red.; GROSMAH, R.V., red.; SERGEYEV, A.N., tekhn.red.

[Proceedings of the third All-Union Hydrological Congress] Vsesoiuznyi gidrologicheskii s"ezd. 3rd, Leningrad, 1957. Trudy. Leningrad, gidrometeor. izd-vo. Vol.1 [General information, decisions, and papers presented in plenary sessions] Obshchie svedeniia, resheniia i plenarnye doklady. 1958. 242 p. (MIRA 12:1)
(Hydrology--Congresses)

Popov, I. V.

50-2-20/22

AUTHORS: Chebotarev, A. I., Popov, I. V.

TITLE: IIIrd All-Soviet Hydrological Meeting (III Vsesoyuznyy gidrologicheskiy s"yezd).

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 2, pp. 57-60 (USSR).

ABSTRACT: This meeting took place in Leningrad from October 7th to October 17th, 1957. It was the main task of this meeting to strike a balance of the investigations of the waters and of the continent during the 40 years of Soviet power and to determine the trends of a further development. Following problems were discussed on the meeting: calculation of the river flow and other elements of the water supply, hydrological forecasts, hydrophysics (mainly in the field of the research into and working out of computation methods of the evaporation of snow and ice), computations of the hydrological conditions of lakes and water reservoirs, hydrodynamics and processes of the alterations of the river-bed, hydrological computations, changes of the humidity of the atmosphere, problems of regional hydrology, hydrometry and of the construction of equipment, of the groundwater and of the underground feeding of the rivers, of hydrochemistry as well as of the

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IIIrd All-Soviet Hydrological Meeting.

50-2-20/22

sanitary control of the waters, and also of the hydrology, however, only to the extent to which they are connected with the problems of the continental hydrology. 1295 permanent participators were present on the meeting, 1260 of them were from the Soviet Union, who represented 23 nationalities of 15 Soviet republics. In the meeting took part: the institutes of the AN USSR, and among them in the first place the Department for Hydrology, the Geographical Institute, the Hydrochemical Institute, and the Institute for Hydrology and Hydraulic Engineering of the AN of the Ukrainian SSR. This meeting was the reason for an exhibition which demonstrated the successes of the hydrology in the course of 40 years. 35 organisations took part in this exhibition. The lectures held on the IIIrd meeting on the problems of the groundwater solved the problem of the feeding of rivers and the taking into account of the connection between the underground- and surface water in the hydrological computations, as well as of the forecasts of water conditions. It was the unanimous opinion that a closer coordination of the works is to be desired, and that it is necessary to create special institutions for the testing of numerous methods for the hydrological computation and to establish centres for the planning of the exploitation of the

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50-2-20/22

water supplies of the country and for the control of the natural waters. The physical standpoint with reference to the research of the hydrological processes represents a reliable basis for a further application of the statistics, also for the probability theory, the characteristics and the geographical connections of the hydrological values. On the meeting it was found that various standpoints on problems of hydrological investigations and theoretical bases are a consequence of imperfect initial data of the computations and the schematization of phenomena. The problem of the water regulation is a new aspect of hydrological research. More and more new water reservoirs appear on the map which entail a considerable alteration in the natural conditions of the country and demand the development of new methods of research, computation, and forecast. In connection with the establishment of energy supply systems in the country the question of the investigation of the fluctuations of the run-off within long intervals and their coincidence with respect to time is especially important for the regulation of the production of the hydroelectric power.

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IIIrd All-Soviet Hydrological Meeting.

50-2-20/22

AVAILABLE: Library of Congress

Card 4/4

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V.7, Materials of 7th AU Interdept Conf. Aerial Survey (Dec 56), Moscow, 1959, 331p

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Hydrological Institute].
Use of Aerial Photographs in Investigating River-Bed Processes 209

Valeshko, G.I. [Gidroenergoprojekt - All Union Association for
Hydroelectric Developments].
Aerial Photographs Applied to the Study of Hydrological Conditions
in Rivers During Ice-Gang 212

Afnas'yev, A.I. [Tsentral'nyy institut prognozov - Central Institute
of Weather Forecasting].
Use of Aerial Photographs of Snow Cover for Hydrological Computations 217

Vendrov, S.L. [Gipromchtrans - State Institute of Inland-Waters
Transport Planning and Scheduling].
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Card 9/ 15

BORSUK, O.N., kand.geogr.nauk; POPOV, I.V., kand.geogr.nauk; SPENGLER,
O.A., ~~kand.geogr.nauk~~; URYVAIEV, V.A., otv.red.; ORLOV, B.P. (Moskva),
prof., doktor geogr.nauk, red.toma; PROTOPOPOV, V.S., red.;
BRAYNINA, M.I., tekhn.red.

[Proceedings of the Third All-Union Hydrological Conference]
Trudy III Vsesoluznogo gidrologicheskogo s"ezda, Leningrad.
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1. Vsesoyuznyy gidrologicheskii s"yezd, 3rd, Leningrad, 1957.
2. Akademiya nauk SSSR (for Orlov).
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[Engineering geology] Inzhenernaia geologiia. Izd.2., perer.
i dop. Moskva, Izd-vo Mosk.univ., 1959. 509 p. (MIRA 12:8)
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GUREVICH, M.I., kand.geogr.nauk; POPOV, I.V., kand.geogr.nauk; SPENGLER, O.A., kand.geogr.nauk; URYVAYEV, V.A., otv.red.; SOKOLOVSKIY, D.L., prof., doktor tekhn.nauk, red.toma; CHEBOTAREV, A.I., dotsent, kand.tekhn.nauk, red.toma; KALININ, G.P., prof., doktor geogr.nauk, red.toma; GROSAN, R.V., red.; SHATILINA, M.K., red.; BRAYNINA, M.I., tekhn.red.

[Transactions of the Third All-Union Hydrological Congress] Trudy III Vsesoiuznogo gidrologicheskogo s"ezda. Leningrad, Gidrometeor. izd-vo. Vol.2. [Section of runoff calculations and forecasts] Sektsia raschetov i prognozov stoka. 1959.. 767 p. (MIRA 13:2)

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(Hydrology--Congresses) (Runoff)

POPOV, I.V.

Use of aerial photogrammetric materials in studying stream-
channel processes. Trudy Lab.aeromet. 7:209-211 '59.
(MIRA 13:1)

1. Gosudarstvennyy gidrologicheskiy institut.
(Aerial photogrammetry)
(Hydrographic surveying)

3(4)

SOV/11-59-9-12/18

AUTHOR: Popov, I.V., Gor'kova, I.M. and Kotlov, F.V.

TITLE: In Memoriam of Viktor Aleksandrovich Priklonskiy

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 9, pp 96-98 (USSR)

ABSTRACT: This is an obituary notice on Professor V.A. Priklonskiy, Corresponding Member of the AS USSR, who died on 13 February 1959. The deceased was a specialist on hydrogeology and engineering geology. He was the director of the Laboratoriya gidrogeologicheskikh problem AN SSSR (Laboratory of Hydrogeological Problems of the AS USSR).

Card 1/1

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ZVORYKIN, K.A., otv.red.; DAVYDOV, L.K., prof., red.; YASNO-
GORODSKAYA, M.M., red.; SERGEYEV, A.H., tekhn.red.

[Hydrology and the national economy] Gidrologiia i narodnoe
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RZHANITSYN, Nikolay Aleksandrovich; POPOV, I.V., otv.red.; IVZHENKO,
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Lomonosova.

(Geological modeling)

AFANAS'YEV, Tikhon Pavlovich; POPOV, I.V., doktor geol.-min.
nauk, otv. red.

[Hydrogeology and hydrogeochemistry of the Volga Valley; a
brief outline] Gidrogeologiya i gidrogeokhimiya Povolzh'ia;
kratkiy ocherk. Moskva, Nauka, 1965. 170 p. (MIRA 18:12)

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Use of hydrologic and morphological analysis in projecting
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FOFOV, E.V.

Quantitative indexes of various types of riverbed evolution.
Trudy CGI no.116:32-81 '64. (MIRA 17:12)

SOKOLOV, Aleksey Aleksandrovich; POPOV, I.V., kand. geogr. nauk,
red.; SHATILINA, M.K., red.

[Hydrography of the U.S.S.R.; inland waters] Gidrografiia
SSSR; vody sushi. Leningrad, Gidrometeoizdat, 1964. 534 p.
(MIRA 17:12)

POPCV, Ivan Stepanovich; VOKUB'YEV, D.V., red.

[Reed thickets as a raw materials base for the woodpulp
and paper industry] Trostnikovye zarosli kak syr'evaia
baza tseliulozno-bumazhnoi promyshlennosti. Moskva, izd-
vo "Lesnaia promyshlennost'," 1964. 243 p. (MIRA 17:6)

ZAKHARIEV, Aleksandur; POPOV, Ivan; STANCHEV, Stancho; KIKINDONOV,
Todor

Male and female sterility in certain varieties of sugar beets
in Bulgaria. Selskostop nauka [2] no. 2: 162-167 '63.

POPOV, Ivan d., prof. d-r

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For a continuous improvement of organizational forms in the
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POPOV, Ivan Vasil'yevich; TOMASHPOL'SKIY, Leonid Markovich;
~~KANEVSKAYA~~, T.M., red.; SEMENOV, L.V., red.; GERASIMOVA,
Ye.S., tekhn. red.

[The fuel power supply of the world socialist system] Toplivno-
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skva, Izd-vo "Ekonomika," 1964. 269 p. (MIRA 17:3)

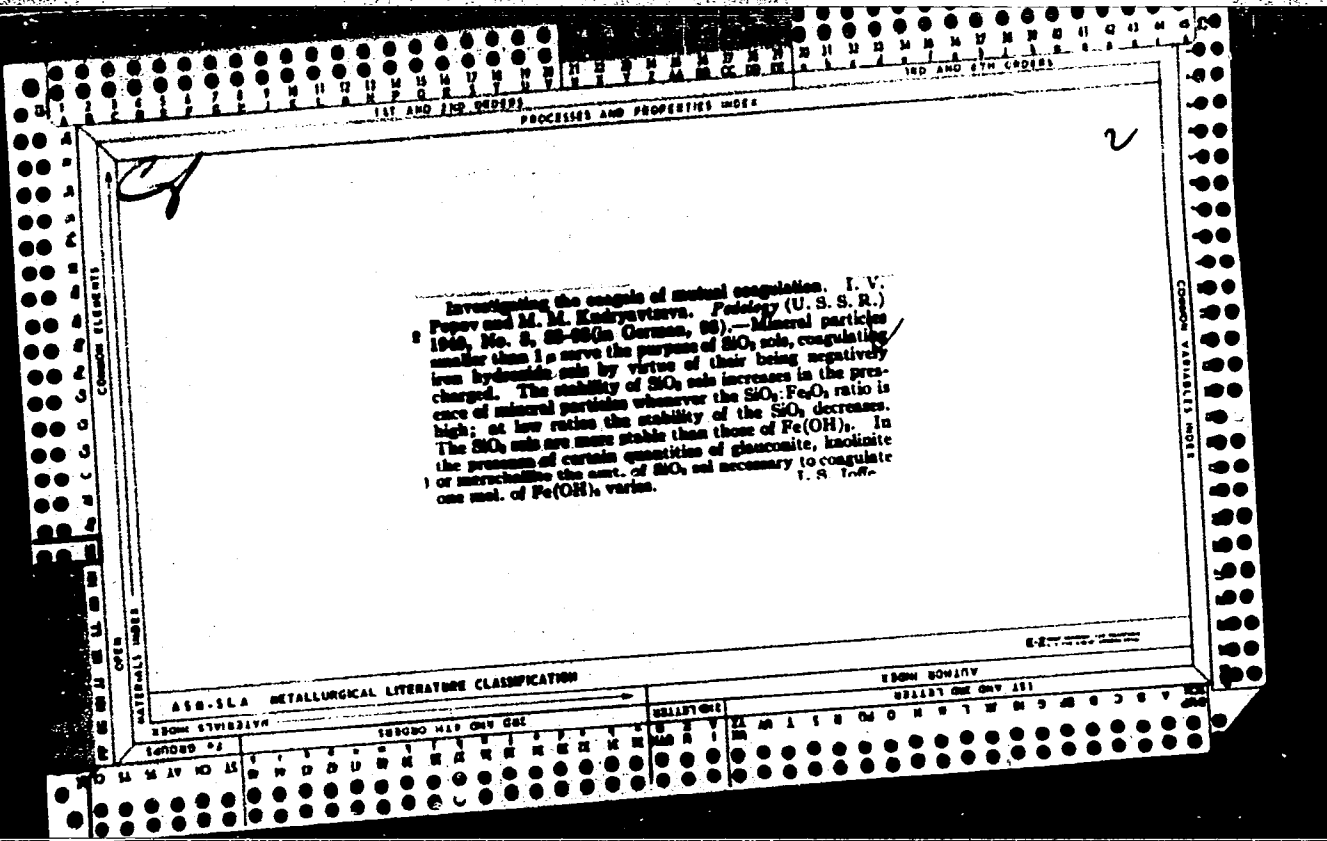
MARGOLIN, L.M.; MAKAROVA; PAPINASHVILI, K.I.; PASHKOV, Yu.S.; POPOV, I.V.;
SKORODUMOV, D.Ye.

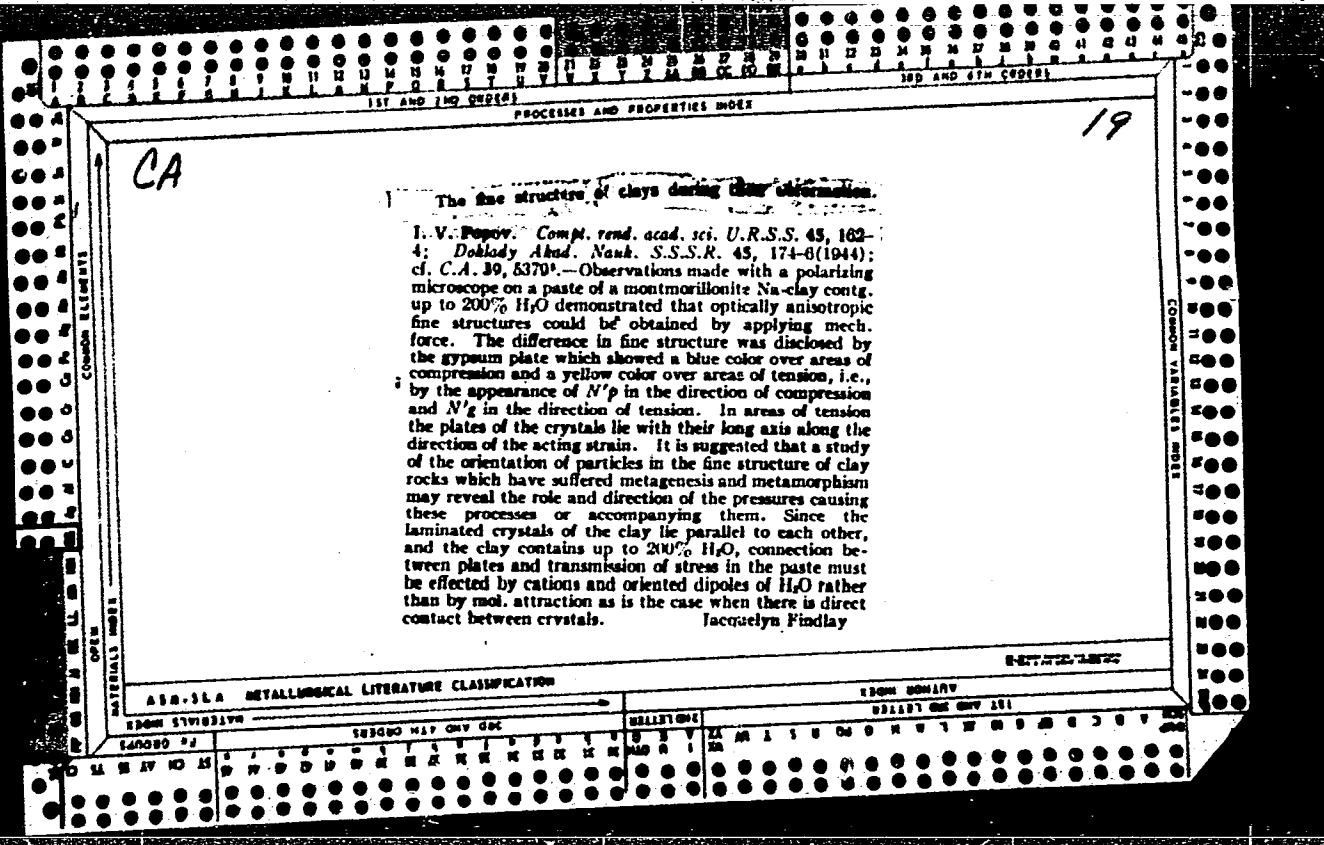
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RAZUMOVSKIY, V.G. (Moskva); BRAVERMAN, E.M. (Moskva); POPOV, I.V. (Orel)

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(MIRA 16:12)





H.L. 21 4 11 *Microscopy*

27. 4/11

Crystalline nature of structure of clay grounds. I. V. Lopyrev
(*Compt. rend. Acad. Sci. U.R.S.S.*, 1945, **48**, 200—203).—The
microscopical examination of crypto- and micro-structural aggregates in natural formations of montmorillonite (I) and kaolinite (II) clays both saturated with Na and Ca is described. The aggregates of (I) Ca clays were anisotropic and in the form of cryst. flakes of banded structure, being made up of alternating anisotropic and amorphous bands. Their size was 200—50 μ , or less. The flakes were destroyed when treated with a solution of NaCl. No double refraction was observed with (I) Na clays. These were in the form of uniform grains of size $>1 \mu$, partly gathered into unstable clots and flakes. When dried between filter-paper they showed high interference colours. When pptd. with Ca salts anisotropy developed. There was little difference between (II) Na and Ca clays. The aggregates were very small and birefringent. The difference between the properties of (I) Ca and Na clays is explained by the comparatively weak bond formed by univalent cations and the stronger bond formed by bivalent cations. C. R. H.

TKACHUK, V.G., *otv. red.*; TOLSTIKHIN, N.I., *red.*; POPOV, I.V., *red.*;
ZAYTSEV, I.K., *red.*; YEFIMOV, A.I., *red.*; PAL'SHIN, G.B.,
red.; GRECHISHCHEV, Ye.K., *red.*; ASTRAKHANTSEV, V.I., *red.*;
PERLOVICH, B.F., *red.*; PECHERSKAYA, T.I., *tekhn. red.*

[Transactions of the Second Conference on Underground Waters
and the Engineering Geology of Eastern Siberia held in Chita,
1958] Trudy Soveshchaniia po podzemnym vodam i inzhenernoi
geologii Vostochnoi Sibiri. Irkutsk, Irkutskoe knizhnoe izd-
vo. No.4. 1961. 161 p. (MIRA 16:4)

1. Soveshchaniye po podzemnym vodam i inzhenernoy geologii
Vostochnoy Sibiri. 2d, Chita, 1958.
(Siberia, Eastern--Water, Underground)
(Siberia, Eastern--Engineering geology)

KOROBANOVA, Irina Grigor'yevna; BOCHAROVA, Irina Sergeyevna;
ZUBKOVICH, Galina Georgiyevna; KOVALEVA, Antonina Petrovna;
KOPYLOVA, Al'bina Konstantinovna; POPOV, I.V., doktor geol.-
min. nauk, otv. red.; STOLYAROV, A.G., red. izd-va; SUSHKOVA,
L.M., tekhn. red.

[Characteristics of Jurassic rocks in the Kursk Magnetic
Anomaly in connection with the conditions of their forma-
tion from the view point of engineering geology] Inzhenerno-
geologicheskaya kharakteristika iurskikh porod KMA v svyazi s
usloviyami ikh formirovaniia. [By] I.G.Korobanova i dr. Mo-
skva, Izd-vo Akad. nauk SSSR, 1963, 109 p. (MIRA 16:4)
(Kursk Magnetic Anomaly--Engineering geology)
(Kursk Magnetic Anomaly--Rocks, Sedimentary)

MAKEYEV, Zoroastr Aleksandrovich; POPOV, I.V., doktor geol.-miner. nauk, prof., otv. red.; FILIPPOVA, B.S., red. izd-va; NOVICHKOVA, N.D., tekhn. red.

[Characteristics of Maikop clays from the viewpoint of engineering geology (southern part of Volgograd Province and central Ciscaucasia)] Inzhenerno-geologicheskaja kharakteristika maikopskikh glin; iuzhnaia chast' Volgogradskoi oblasti i Tsentral'noe Predkavkaz'e. Moskva, Izd-vo Akad. nauk SSSR, 1963. 266 p. ___ Supplement; diags.

(MIRA 16:6)

(Volgograd Province--Clay) (Caucasus, Northern--Clay)
(Engineering geology)

S/755/61/000/003/023/027

AUTHORS: Virgil'yev, Yu. A., Gruzin, P. L., Popov, I. V.

TITLE: Investigation of the behavior of small additions of calcium in the smelting of nickel-chrome alloys by the radioactive-isotope method.

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Metallurgiya i metallovedeniye chistykh metallov. no.3. 1961, 216-224.

TEXT: The paper describes the experimental use of the radioactive isotope Ca^{45} for the lab investigation of the behavior of small additions of Ca in the smelting of alloys of the type XH80T (KhN80T). Such additions are employed frequently as deoxidizing agents, and it is desirable to obtain data on the amount of Ca within the alloy, its distribution in an ingot between the various phases of the alloy, the rate of transition of the Ca from the metal to the slag, and the Ca distribution between metal and slag in various deoxidizing procedures. The Ca^{45} tracer employed is β -active, with an energy of 0.26 Mev and a half-life of 152 days. The Ca was introduced into the alloy in the form of a silicocalcium (SC) similar to that utilized in the industry (27% Ca). The first two melts were employed to establish the distribution of the Ca within the ingot and the coefficient of assimilation of the SC upon (1) placement of the radioactive SC on the bottom of a mold, and (2) introduction of

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Investigation of the behavior of small additions ...

S/755/61/000/003/023/027

the radioactive SC underneath a fully developed slag layer formed of a prepared mixture comprising 65% CaO, 15% CaF₂, and 20% MgO. The ingots were cut longitudinally (along the axis), and the longitudinal and transverse Ca distributions were investigated by 550-hr radioautography of pulverized samples obtained from various points. The assimilation coefficient (ratio of total activity of ingot to total activity of SC introduced) was found to be 78% in ingot (1) and 21% in ingot (2); in the latter ingot the distribution coefficient (ratio of total activity of slag to total activity of metal) was 3.4. In ingot (1) the SC migrates upward along the periphery of the ingot, where it remains 2-3 times as elevated as along the ingot axis. In ingot (2) the SC concentration on the ingot axis is 25% higher than at the periphery. Centers of blackening on the radioautographic film indicate the accumulation of the Ca in nonmetallic inclusions, which are larger in ingot (1) than in ingot (2), where apparently, most of the large inclusions have succeeded in passing into the slag phase. A third melt, in which specimens were withdrawn from the melt and from the slag to determine the time-wise changes, indicated a rapid decrease in Ca content in the melt during the first 3-4 min, after which the decrease proceeded more slowly. After about 8 min the specific activity of the metal samples approached the background value asymptotically. Thus, it may be stated that a 1.5-kg charge in an induction furnace at 1,500°C loses practically all of its Ca within 10 min from the introduction of the SC into the bath. The determination of the Ca

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Investigation of the behavior of small additions ... S/755/61/000/003/023/027

concentration in the nonmetallic inclusions formed by Ca oxidation in the liquid metal, which was performed by Dr. Yu. A. Klyachko's electrolytic-dissolution method, is briefly summarized (full-page table). Initially, along with an insignificant formation of nonmetallic inclusions, most of the Ca is found to be dissolved in the metal. With the successive oxidation of the Ca, the CaO, together with the larger nonmetallic inclusions, passes into the slag, so that the Ca decreases rapidly with time of holding of the melt in the liquid condition. There are 2 figures and 4 tables; no references.

ASSOCIATION: MIFI (Moscow Engineering Physics Institute).

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G.N.Kamenskii's theory of engineering-geology phenomena and
its role in the development of Soviet engineering geology. Trudy
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(Engineering geology)

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Dok. AN, 54, No. 2, 1966

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SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

POPOV, I. V.

24844. POPOV, I. V. Mikroskopicheskiye i Fiziko-Khimicheckiyе Issledo-Vaniya, Sostava i Struktury Glinistykh Porod Neskol'kikh Geneticheskikh Tipov. Trudy Jubileynoy Sessii, Pos v yaschch. Stoletiyu so Dnya Rozhdeniya Doky chayeva. M. L., 1949 S. 658-60.

SO: Letopis' No. 33, 1949

1. PCPCV, I. V.
2. USSR (600)
4. Geology
7. Studies about the ground as a geological formations. Trudy Lab. gidrogeol. prosl.
6. 1949.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

30805. POPOV, I. V.

Sovetskaya inzhenernaya geologiya. Voprosy gidpogeologii i inzh.
Geologii, sb. 12, 1949, s. 3-6.

30806. POPOV, I. V. and MAKSIMOVICH, N. A.

Fizikokhimicheskiye issledovaniya prichin zasoryayemosti drenazha. Voprosy
gidpogeologii i inzh. geologii, sb. 12, 1949, s. 26-45. -- Bibliogr: s. 45.

ПОПОВ, И. В.

23986 ПОПОВ, И. В. Микроскопические исследования структур глинистых пород. (Структура и искусственно полученных препаратов Глин). Проблемы сов. Почвоведения, SB. 15, 1949, S. 174-210. Bibliogr: 13 Назв.

SO: Letopis, No. 32, 1949.

POPOV, Ivan Vasel'yevich, 1889-

Methods of compiling engineering geological maps. Moskva, Gos. izd-vo geol. lit-ry, 1950. 43 p. maps. (51-34385)

QE33.P64

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geologicheskoi lit-ry, 1951. 442 p. (MLRA 6:11)
(Geology) (Engineering)

POPOV, I.V., Prof.

Hydroelectric Power

Engineering-geological surveys for hydro-power construction. Gidr.stroi. 21, no.6, 1952.

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POPOV, I. V.

SA 249T85

USSR/Geophysics - Hydroelectric Power Stations

Oct 52

"Soviet Geology in the Service of the Great Constructions of Communism," Prof. I. V. Popov

Priroda, Vol 41, No 10, pp 15-24

Discussion of the results of author's personal interview of a group of Soviet scientists and geologists which created a scientific methodical leadership for the engineering-geological investigations preliminary to the construction of hydroelectric power stations. This work won Popov a Stalin Prize for 1951. Elaborates on the role

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of Soviet geol sci in the realization of the great Stalin plan for the construction of grandiose hydroelectric power stations and canals on the Amu-Darya, Volga, Don, and Dnepr.

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BEJYY, L.D., laureat Stalinskoy premii; NEYSHTADT, L.I.; KONYAROVA, L.P.;
POPOV, I.V., professor, doktor geologo-mineralogicheskikh nauk,
redaktor; SKVORTSOV, I.M., tekhnicheskii redaktor

[Engineering and geological research in the planning and construction
of hydroelectric structures; a manual of methods for engineering
geologists] Inzhenerno-geologicheskie issledovaniia pri proektirovanii
i stroitel'stve gidroenergeticheskikh sooruzhenii; metodicheskoe
posobie dlia tekhnikov-geologov. Moskva, Gos. energ. izd-vo, 1955.
408 p. (MRLA 9:')

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsiy i
elektroprovodnosti. Upravleniye kapital'nogo stroitel'stva.
(Hydroelectric power stations)
(Engineering geology)

ПОПОВ, И. В.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Попов, И. В.	"Engineering Geology"	Moscow Geological Prospecting Institute Leni S. Ordzhonikidze

Doc. 7-30604, 7 July 1954

Report 2. V.
BELYI, L.D., laureat Stalinskoy premii; MEYSHTADT, L.I.; KONYAROVA, L.P.;
POPOV, I.V., professor, doktor geologo-mineralogicheskikh nauk,
redaktor; LARIONOV, G.Ye., tekhnicheskii redaktor

[Engineering geology research in designing and constructing hydro-
electric power structures; a practical manual for technicians and
geologists] Inzhenerno-geologicheskie issledovaniia pri proektirovanii
i stroitel'stve gidroenergeticheskikh sooruzhenii; metodicheskoe posobie
dlia tekhnikov-geologov. Izd. 2-oe, ispr. Moskva, Gos. energ. izd-vo,
1954. 408 p. (MLRA 9:12)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrotantsii. Upravle-
nie kapital'nogo stroitel'stva. 2. Institut "Gidroenergeproekt."
(for Belyi, Meyshtadt, Konyarova)
(Soil mechanics) (Hydraulic engineering)

POPOV I.V.
POPOV, I.V.

Compilation of general engineering, geology maps. Trudy MGRI no.26:
82-94 '54. (MLRA 8:12)

(Geology--Maps)

POPOV, I.V.

Contemporary problems in engineering geology and soil mechanics.
Vest. Mosk. un. 10 no.4:185-191 Ap-May '55. (MIRA 8:8)
(Engineering geology) (Soil mechanics)

POPOV, I. V.

USSR/Physical Chemistry - Colloid Chemistry. Disperse Systems, B-14

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61233

Author: Popov, I. V., Kudryavtseva, M. M.

Institution: None

Title: Investigation of the stability of Coagels Formed by Mutual Precipitation of Sols

Original

Periodical: Tr. labor. gidrogeol. problem AN SSSR, 1955, 12, 168-179

Abstract: A study of the stability of coagels (CG) produced by interaction of sol₁ of silica and iron hydroxide at different pH and molar ratios $n = \text{SiO}_2:\text{Fe}_2\text{O}_3$ in solution. Pretreated (dried under different conditions or maintained in solution for 4-5 months) CG were treated with solutions of Na oxalate at different pH (addition of NH_3 or $(\text{COOH})_2$). After 48 hours determination was made in the filtrates of removed Fe_2O_3 and SiO_2 . It is shown that Fe_2O_3 is extracted in an amount ≥ 10 times less than SiO_2 . From CG with particles of glauconite at all values of n . Fe_2O_3 is extracted in

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USSR/Physical Chemistry - Colloid Chemistry. Disperse Systems, B-14

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61233

Abstract: larger amounts than from CG of other compositions. The CG are most stable at pH 7. Aging of CG in solution manifests itself differently with CG of different composition. In the presence of mineral particles more stable are CG containing more sesquioxides and having low values of the ratios $m = \text{SiO}_2:\text{Fe}_2\text{O}_3$ in the precipitate. Precipitating capability of minerals depends upon their dispersity and the n . It is noted that a comparison of the action of solutions of different pH upon different systems can be made only when mineral particles of CG are of the same nature and at the same values of m .

POPOV, I.V.

POPOV, I.V.

~~POPOV, I.V.~~

Making scale models in engineering geological research. Biul.
MOIP. Otd.geol.30 no.3:91 My-Je'55. (MIRA 8:10)
(Geological modeling)

YEMEL'YANOVA, Yevgeniya Petrovna; ~~POPOV, I.V.~~ redaktor; NEMANOVA, G.F.,
redaktor izdatel'stva; KRYZCHKINA, K.V., tekhnicheskiy redaktor

[Practical manual for the stationary study of landslides] Metodiche-
skoe rukovodstvo po statsionarnomu izucheniiu opolznei. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po geol. i okhrane neдр, 1956. 245 p.
(Landslides) (MLR# 9:12)