BONEY, N.

"The Rotation of Venus." In French. p.167 (GJDISHRIK, MATHEATIKA I FIZIKA, Vol. 47, no. 1, pt. 2, 1950/51-1951/52, Sofiya.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1954, Uncl.

BONEV, N.

"The Law of Titius-Bode." p.183 (CODISHNIK, MATEMATIKA I FIZIKA, Vol. 47, No. 1, 1950/51-1951/52, Sofiya.)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress, March, 1954, Uncl.

BONEV, N. Astrofizika. (Sofiya)

Nauka i izkustvo (1953) 162 p. (Universitetska) (Astrophysics. illus., tables)

SO: Monthly list of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

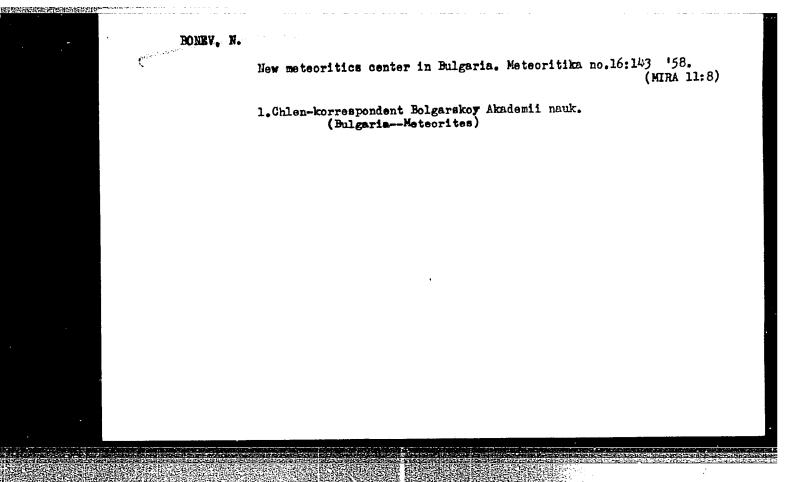
BONEY,	N.
Provide y Charles Co.	Rotation of Venus. Biul. VAGO no.15:41-46 154. (MIRA 8:4)
	1. Astronomicheskiy institut pri Sofiyskom universitete. (Venus (Planet))

## BONEY N.

Distribution of lunar craters in connection with their origin; a new argument against the meteoritic hypothesis. In French. p. 177.

GODISHNIK. MATEMATIKA I FIZIKA. Sofiia, Bulgaria, Vol. 50 No. 1 1955/56 (Published 1957)

Honthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960 Uncl.



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BONEY, N.

On the contour of the terrestrial continents; probable influence of the moon. In French. p. 165.

GODISHNIK. MATEMATIKA I FIZIKA. Sofiia, Bulgaria, Vol. 50 No. 1 1955/56 (Published 1957)

Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960 Uncl.

BONEV, N.

Distribution of the lunar craters in relation to their origin; a new argument against the meteoritic hypothesis. In French. p. 121.

GODISHNIK. MATERMATIKA I FIZIKA. Sofiia, Bulgaria, Vol. 50, no. 1 pt. 2 1955/56 (published 1958)

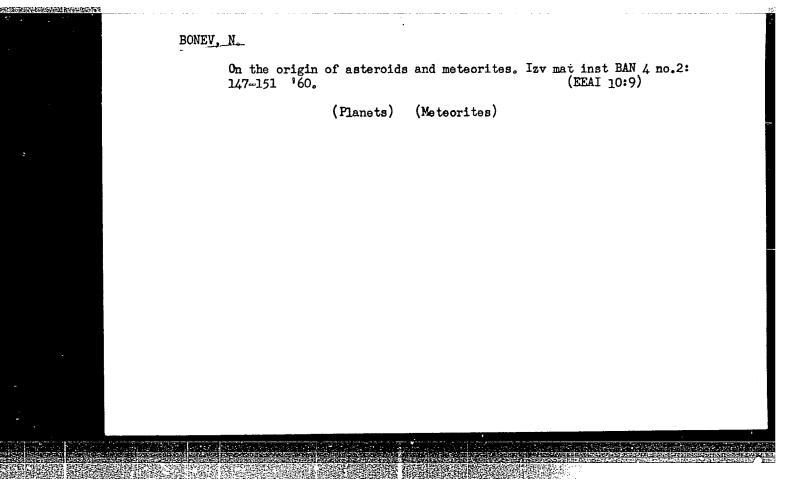
Monthly List of East Accession (EEAI) LC, Vol. 9, No. 1 January 1960 Uncl.

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BONEV, N.

Distribution of moon craters in relation to their origin (possible influence of the earth). In French. p. 97. (GODISHNIK. MATEMATIKA I FIZIKA, Vol. 49, No. 1, 1954/55 (published 1956), Sofia, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9, Sep 1957. Uncl.



3.1550 (1057,1062,1129)

20499 \$/025/61/000/003/011/612 A166/A127

AUTHOR:

Bonev, N., Member; Director (see Associations)

TITLE:

The Newcomer from space

PERIODICAL:

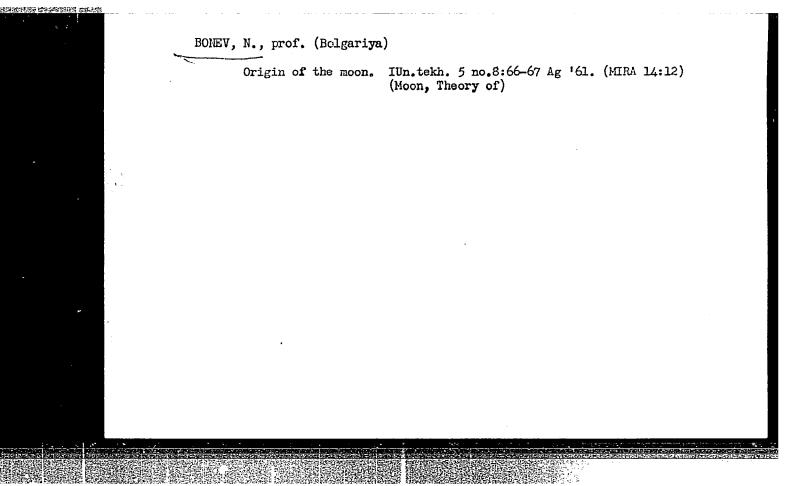
Nauka i zhizn', no. 3, 1961, 32

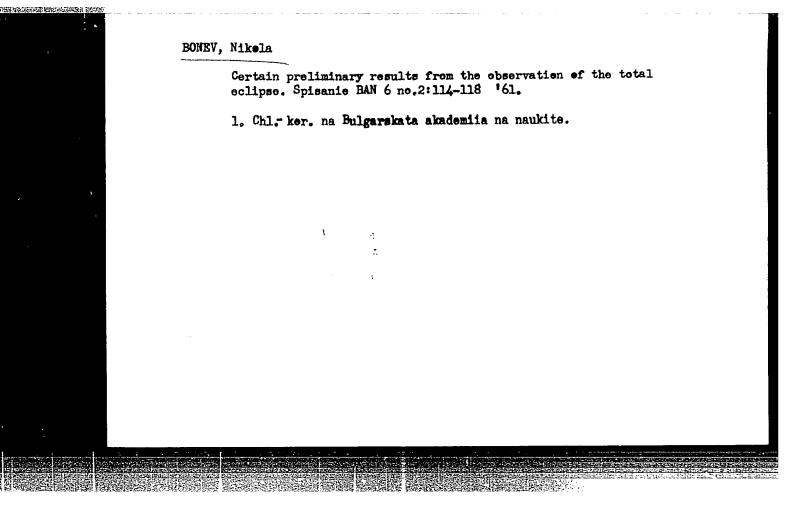
TEXT:

N. Bonev, Member of the Bulgarian Academy of Sciences and Director of the Astronomical Observatory at Sofia, recently advanced an original hypothesis at the Mezhdunarodnyy simpozium "Luna" (International Symposium "The Moon"). Bonev points out that the Moon is a disproportionately large satelli e for a body the size of the Earth. Secondly, craters can be observed on the Moon such as have been detected on no other satellite. These are probably of volcanic origin. From this assumption the author concludes that the Moon may once have been an independent planet in the solar system whose orbit approached that of the Earth. Perhaps due to a colossal volcanic eruption it had lost much of its original large mass and greatly increased its velocity so that it was drawn into the Earth's orbit. There is 1 drawing.

Card 1/2

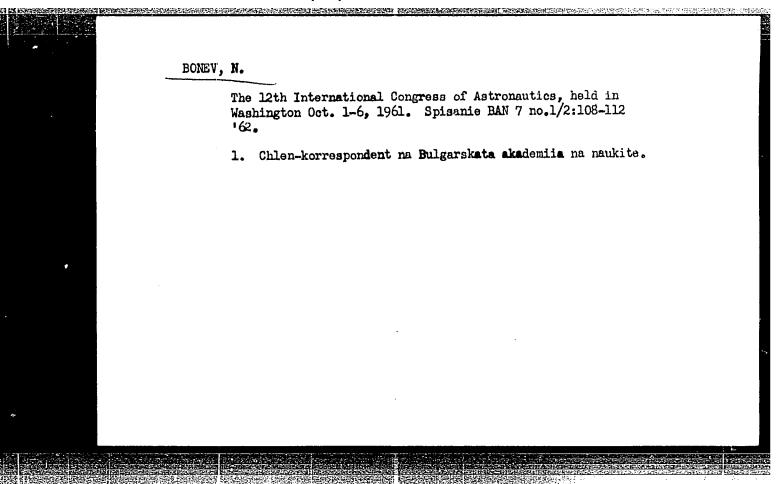
20199
S/025/61/000/003/011/012
The Newcomer from space A166/A127
ASSOCIATIONS: Academy of Sciences of Bulgaria; Astronomical Observatory at Sofia





Problem of the twins in the theory of relativity and in astronautios. Godishnik fiz mat 55 no.2:1-6 '60/'61 [publ. '62].

1. Redaktor, "Godishnik na Piziko-matematicheskiia fakultet."



FONEY, N.

The Thirteenth Congress of the International Federation of Astronautics. Spisanie BAN 7 no.4:125-127 '62.

1. Chl.-kor. na Bulgarskata akademiia na naukite.

L 27263-65 FCS(f)/T/EEC(c)-2/EED-2/EED(b)-3 Pn-4/Po-4/Pe-5/Pq-4/Pac-4/Pg-4/ Pae-2/Pk-h/Pl-h IJP(c) GA/WR ACCESSION NR: AT5003485 AUTHOR: Boney, N. (Professor) TITLE: Activity of Bulgarian stations in observing artificial earth satellites SOURCE: Nablyudeniya iskusstvennykh sputnikov Zemli, no. 1, 1957-1962. Hoscow, 1962. Byulleten' stantsiy opticheskogo nablyudeniya iskusstvennykh sputnikov Zemli; spetsial'nyy vypusk, 67-68 TOPIC TAGS: artificial satellite, satellite tracking AT 1 telescope, NAFA camera, Zeiss binocular ABSTRACT: The <u>Bulgarian station No. 1101</u> was set up at Sofiya immediately after 10 launching of the first Soviet artificial satellite. N. Bonev, corresponding member of the Bolgarskiy Akademii nauk (Bulgarian Academy of Sciences), became the director of the station. At first only a comet finder and five Zeiss binoculars were available, but in November 1957 the Academy of Sciences SSSR supplied standard astronomical AT-1 telescopes. As many as 40 students were employed for observation under the direction of Bonev. In May 1958 a NAFA-3s/25 camera was obtained from the Academy of Sciences SSSR, and photographic observations were then made. Since 1961 only state workers have participated in the work. Close cooperation has been effected with the Soviet center and with the Chinese observatory Purple Mountain in Card 1/2

	ION NR: AT5003485		4400 mon installed at
Stara cal Ob	Zagora, in the Narodi servatory). Five AT	second Bulgarian station, No neys astronomicheskaya observa- 1 telescopes, one marine chr No. 1101. This station now special course is given here	onometer, and much advice
ASSOCI	ATION: none		는 보고 있다고 하겠다고 하는 것이 보다 없다고 생각하고 있다. 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 1985년 - 1987년 - 1985년
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ACCESSION NR: AT4017780

B/2503/63/011/01-/0139/0144.

AUTHOR: Boney, N.

TIME: Forces, proportional to distance, appearing in the basic equations of the relativity theory

SOURCE: B"lgarska Akademiya na Naukite. Fizicheski institut. Izvestiya na Fizicheskiya institut s ANEB (News of the Institute of Physics and the Atomic Energy Scientific Research Foundation), v. 11, no. 1-2, 1963, 139-144

TOPIC TAGS: relativity, Binstein equation, repulsive force, equilibrium, expanding universe, causality, Painlevé, mechanics

ABSTRACT: The author studied the Bertrand problem relating to binary stars thirty years ago and demonstrated that the solution  $F_2 = -kr$  in this problem must be rejected a priori because it does not comport with the principle of causality (Painlevé's appendix, viz. that the farther away one material body is from another material body, the less the influence of the former on the movements and transformations of the latter). Here the author demonstrates that the appearance of repulsive forces, proportional to distance, in Einstein's fundamental equations can be brought into conformity with the causal principle either by means of equilibrium effected

Card 1/2

ACCESSION NR: AT4017780

in a homogeneous medium (repulsive forces) or by means of expansion of the Universe On the other hand, the relative movement of a satellite via-a-vis its planet is not influenced by the action of remote masses. At the end of the article the author switches from his discussion of the influence of remote masses in space and takes up the influence of the distant past (remoteness in time) on the future.

ASSOCIATION: none

SUBMITTED: 05Dec62

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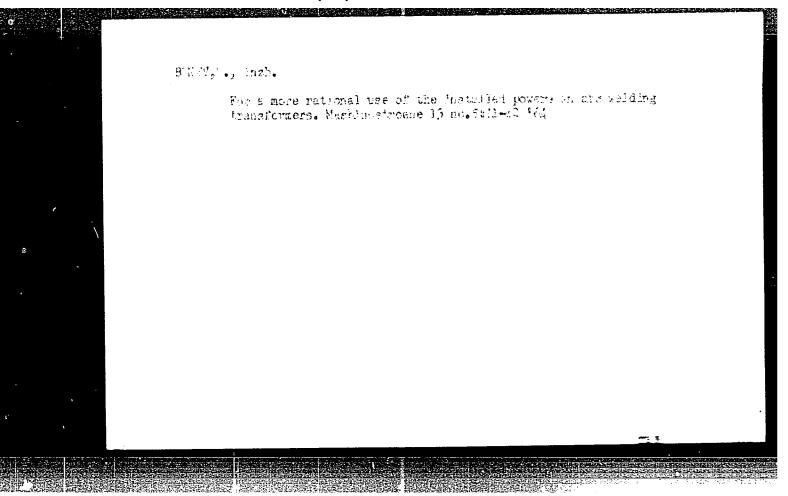
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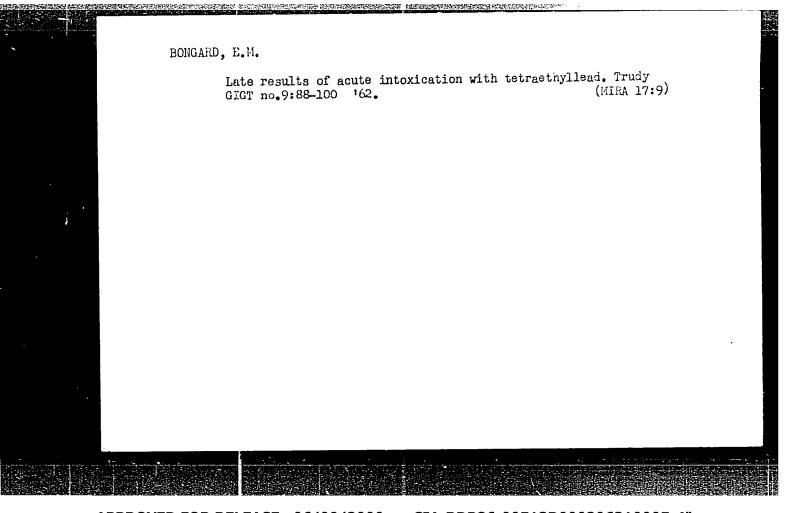
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DOBROKHOCOVA, L.P.; BONFITTO, M.

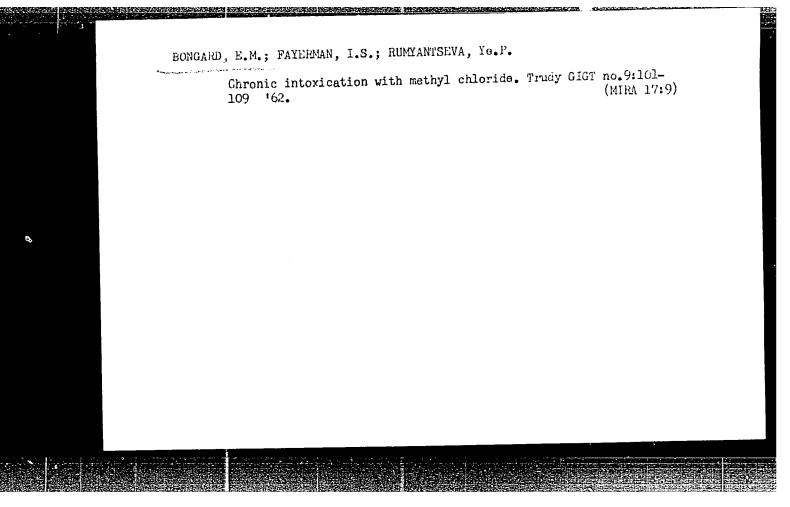
Effect of seizures of the auditory reflex epilepsy on the activity of the heart. Nauch. dokl. vys. shkoly; biol. nauki no.1:58-61 66. (MIRA 19:1)

1. Rekomendovana kafedrov fiziologii vysshev nervnov devatel nosti Moskovskogo genadarstvennogo universiteta. Submitted September 30, 1964.



ACC NR: AP6028238	(N)	SOURCE	CODE: UR/	0392/66/000/002	2/0079/008
AUTHOR: Bongari, E. M.;	Geller, L. I.;	Karimova,	A. Kh.; Poo	lrez, Z. G.	35
ORG: Ufa Scientific Rese (Ufimskiy NII gigiyeny i	earch Institute professionaling	of Hygien ykh zabole	e and Occupa	tional Disease	35 B
TITLE: Vibration sickness	of polishers				
SOURCE: Kazans dy medits	inskiy zhurnal	, no. 2, 1	966, 79-80		
TOPIC TAGS: biologic vit drug treatment, metal pol	oration effect, ishing, nervous	physiolog s system	ical paramet	er, industrial	. medi <b>cin</b> e
ABSTRACT: Workers occupied onto a rotating abrasive at a velocity of 5,700 rp of vibrations 0.33 mm; the vibrations with unfavorable workers corresponded symptoms (tiredness, irriaffecting principally the disturbances, lowering of of the vasovegetative and or pronounced pain syndromatics.	disc were affect m, the vibration of the polishers were le characterist to those descritability, heads hands and arms the temperature angiospastic of	orted by vilon frequence thus expire. The libed in the aches), the s, which is re of the statements.	pration sick by was 96 cy cosed to the clinical sy e literature workers ex ncluded anes skin, etc.	mess. The discretes, and the action of hig mptoms exhibit. In addition hibited local thesia, spasti Depending on tents developed	c rotated amplitude ch-frequented by to gener symptoms c vasculate he severi

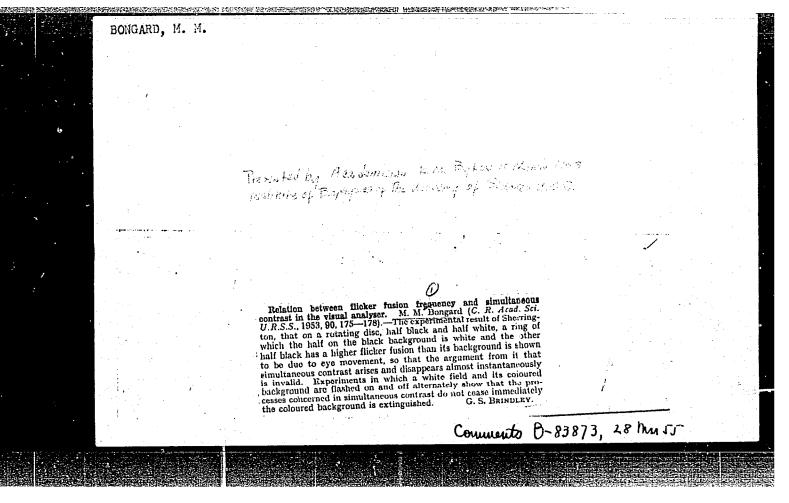
	administration of nicotinic acid, pachycarpine, and vitamine B <sub>1</sub> as well as application of novocain, galvanodiathermy, therapy with paraffin, and treatment with ultra-high frequency current. In the majority of cases the workers could	2
	not resume employment as polishers even after treatment without recurrence and aggravation of vibration sickness. [JPRS: 36,932]	;
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BONGARD, E.M.; LASHCHENKO, N.S.

Characteristics of the course of food poisoning caused by granosan. Vop. pit. 22 no.6:46-52 N-D '63. (MIRA 17:7)

l. Iz klinicheskogo otdela (zav. - prof. S.I. Ashbel') [Gor'kovskogo nauchno-issledovatel'skogo instituta gigiyeny truda i professional'nykh bolezney.



· 130MC-460

Category : USSR/Optics - Physiological Optics

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5307

: Smirnov, M.S., Bongard, M.M. Author

: Concerning the Clusters of Color-Sensitive Photo-Receptors. Title

Orig Pub : Tr. In-ta biol. fiz. AN SSSR, 1955, 1, 1589161

Abstract : An opinion exists that the human retina contains bulbs of serveral

types with different spectral-sensitivity curves and that bulbs of the same type are arranged in clusters with a diameter of approximately 15 microns. A series of experiments, confirming this opinion, is described. It was shown experimentally that persons with good sharpness of vision distinguish between the red and green bright points separated from each other at a distance such that their images are only l micron apart on the retina. The visual separation was determined by experimenter from the ability of the subject to determine correctly thermutual placement of paints, which the experimenter could change in each experiment. Such a high resolving power on the part of the eye for objects of different color contradicts the existence of the clusters. Using A.L. Yarbus'es method for recording the motion of

K-9

the observer's eye, it was shown that points of different color are

Card : 1/2

Category : USSR/Optics - Physiological Optics

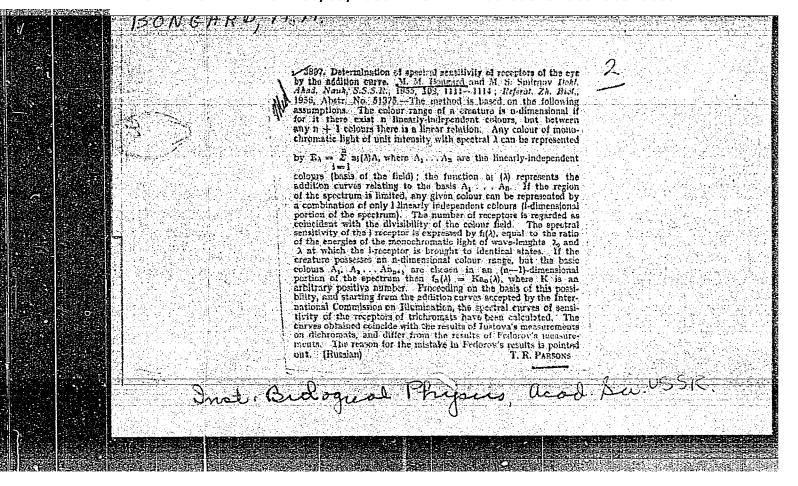
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Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5307

seen by the same regions on the retina. Experiences with short flashes of a small yellow dot have shown that the observer never sees the flash to appear red or green. A red or a green flash was sometimes used instead of a yellow one for control purposes. The observer always identified their color correctly. The authors believe that their experiments prove the absence of clusters measuring 5 x 5 microns or more from the central portion of the human retina.

Card

: 2/2



BONGAD, M.M. USSR/Biologr - Colorimetry Card 1/1 Pub. 22 - 18/45 Authors Bongrad, M. M. Title Colorimetry on animals Pariodical : Dok. AN SSSR 103/2, 239-242, Jul 11, 1955 Abstract The electro-neuro-graphic method for studying colorimetry on animals is described. One USSR reference (1955). Diagrams; oscillograms; graph. The Acad. of Sc., USSR, Institute of Biological Physics Institution Presented by : Academician A. N. Terenin, April 25, 1955

BONGARD, M. M. and Smirnov, M. S.

Concerning the Hypothesis in Regard to Clumps of Color-Sensitive Photoreceptors

Trudy Instituta Biologicheskov Fiziki, No 1, 1956

S916, 5 Mar 1956, page 19

USSR/Optics

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Abs Jour: Referat Zhur-Fizika, 1957, No 4, 10592

Author : Smirnov, M.S., Bongard, M.M.

: Institute of Biophysics, Academy of Sciences, USSR, Moscow, USSR Inst : Threshold and Colorimetric Methods of Studying Color Vision. Title

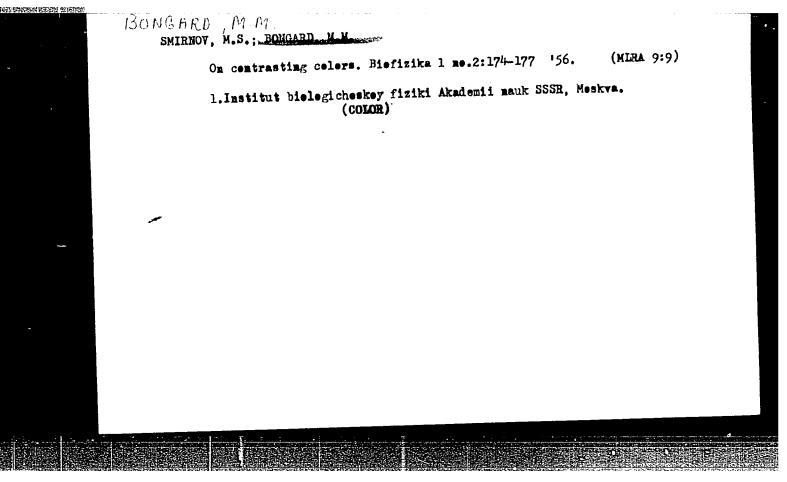
Orig Pub: Biofizika, 1956, 1, No 2, 158-162

Abstract: An analysis of the possibilities and the limits of applicability of

threshold and colorimetric methods for the datermination of the number of receivers participating during the act of color vision and to investigate the spectral and time characteristics of their sensitivity. Considerable advantages of the colorimetric method over the threshold method are noted, in the sense of accuracy and

variety of the information obtained.

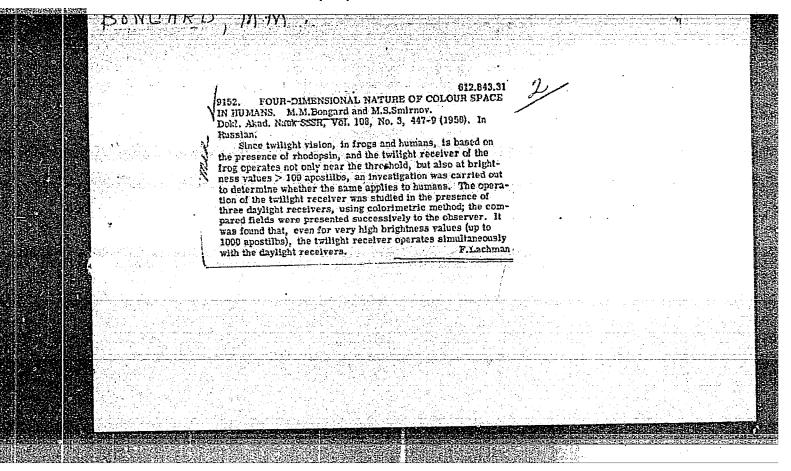
: 1/1 Card



BONGARD, M.M.; SMIRNOV, M.S.

N.T.Fedorov's theory of color contrast. Biofizika 1 no.8:754-758
(MLRA 9:12)

1. Institut biologicheskoy fiziki Akademii nauk SSSR, Moskva.
(COLOR)



BONGARD, M. M., Cand Phy-Math Sci -- (diss) "Investigations of the Metine's color-differentiating functions." Len, 1957. 10 pp. (State Order of Lenin Optic Inst im S. I. Vavilov), 150 copies. \*\*\*\*(KL, 9-58, 112)

- 2 -

USSR / Human and Animal Physiology. Sonse Organs.

Ars Jour : Ref Zhur - Biol., No 15, 1958, No. 70594

Author

: Bongard, M. M.; Smirnov, M. S.

\* Inst Title

NE CONSTRUE DE PORTE

: Visual Colorimetry by the Method of Substitution (A New System of Colorimetry for the Study of Human Color Perception)

Orig Pub

: Biofizika, 1957, Vol 2, No 1, 119-123

Abstract

: With the method of substitution the fields are divided not in space but in time. The authors constructed a four-colored "substitution colorimeter" (the theoretical scheme is presented in the article), which permits studies of color vision both of the center and of the periphery of the retina. Experiments were conducted over a wide range of brightness, with different lambda of basic illumination, with different-sized fields, and with light and

card 1/2

\* Institut electronesky fiziki AN 555R, Meskum.

USSR / Human and Animal Physiology. Sense Organs.

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70594

dark backgrounds for the field. In working with the apparatus, it is possible to measure the power of all color fluxes participating in the experiment, which eliminates the necessary of "diluting the color" and increases the precision of the results. -- L. C. Saksonova

Card 2/2

ODDA HERRITA Sense Organs. Vision.

: Ref Zhur - Biol., No 11, 1958, 51335 Abs Jour

Author

: Bongard, M.M., Smirnov, M.S.

\* Inst

Title

: The Curves of Spectral Sensitivity Obtained from Receivers Connected with Single Fibers of the Optic Nerve in Frogs.

Orig Pub

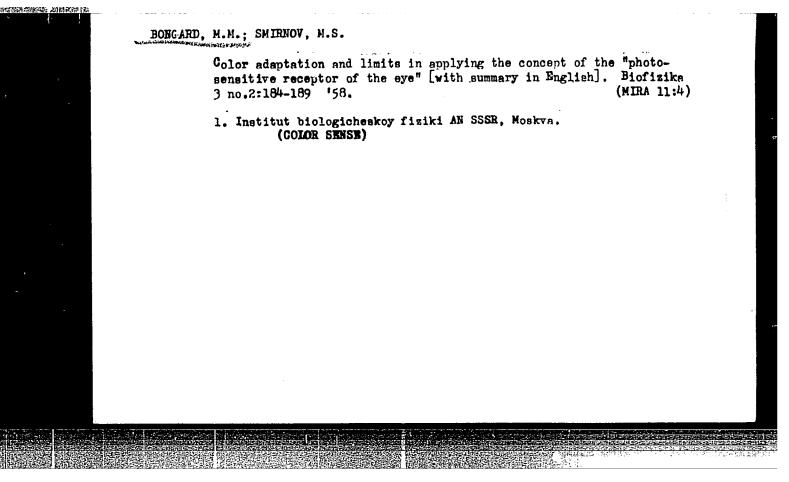
: Biofizika, 1957, 2, No 3, 336-341.

Abstract

: With the aid of a colorimeter, the composition curves of  $\boldsymbol{r}$ receivers measuring retina impulses in frogs were determined. The impulses were transmitted by microelectrodes of 20-30 m in diameter. The obtained curves coincided well with curves established when signals from the entire nerve were transmitted. Along a single fiber of the optic nerve information is transmitted from two receivers with different curves of spectral sensitivity. The authors are of the opinion that the retina of frongs contains two receivers only. -- M.M. Bongard.

Card 1/1

, - 136 -\* INSTITUT BIOLOGICHESKOY FIZIKI AN SSSR, MISKUA.



SMIRNOV, M.S.; BONGARD, M.M.

Hypothesis of the mechanism of photoreception in the retina; analogy between retinal receptors and semiconductor photocell [with summary in English]. Biofisika 4 no.2:181-186 '59.

1. Institut biologicheskoy fisiki AN SSSR, Moskva.

(RETIMA, physiol.

photoreceptors, analogus characteristics with semiconductor photoelements (Rus))

SMIRNOV, M.S.; BONGARD, M.M.

Model studies of color vision. Biofizika 4 no. 6:702-707 '59.
(MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(COLOR SENSE)

17(1)

SOV/26-59-5-3/47

14

AUTHORS:

Bongard, M.M., Smirnov, M.S.

TITLE:

Color Vision in Man and Animals

PERIODICAL:

Priroda, 1959, Nr 5, pp 13 - 20 (USSR)

ABSTRACT:

The author describes the structure of the human eye and the process of perception by sight, some parts of which, he says, are still unexplained, more especially the number and position of the receptors

of light, their spectral sensitiveness and the conveyance of light signals from the receptors to the brain. The author then examines visual sight with one receptor (in guinea pigs), with two receptors (in turtles) and with more than two receptors. The human retina has three receptors. More difficult, he considers, is the problem of spectral sensitiveness with which is connected the

problem of daltonians, (two receptors only). The disposition of the receptors in the retina depends on the type of cone (kolbochka). The conveyance to

Card 1/2

Color Vision in Man and Animals

SOV/26-59-5-3/47

the brain by optical nerves has been investigated in the human eye with the aid of colorimetric experiments. To investigate this process in animals appears to be more difficult, and the author describes experiments carried out with frogs. It was established from the experiments with human sight, that one nerve can carry signals from several receptors. Finally the author speculates on possible future research. There are 6 sets of drawings, 5 graphs and 1 diagram.

ASSOCIATION:

Institut biologicheskoy fiziki Akademii nauk SSSR (Moskva) (Institute of Biological Physics, Academy of Sciences of the USSR - Moscow)

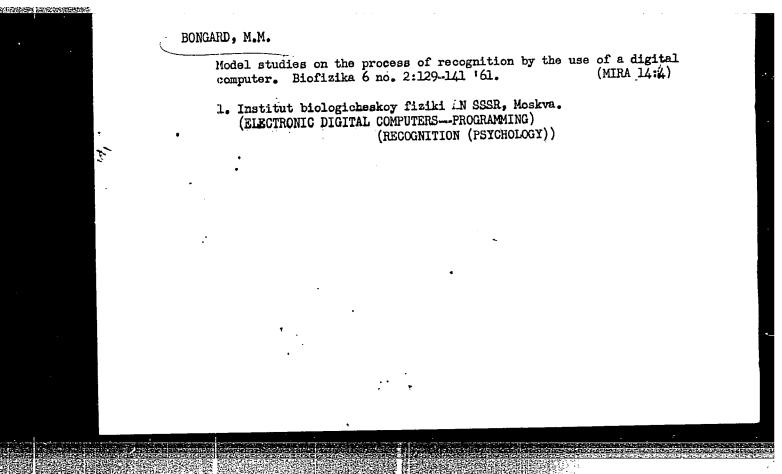
Card 2/2

BIGLESCHERFEI KARRICOUR

Cathode follower for experiments with microelectrodes. Fiziol.zhur.
45 no.1:110-114 Ja 159.

1. From the Institute of Biophysics, U.S.S.R. Academy of Sciences, Moscow.

(ELECTROPHYSIOLOGY, appar. & instruments, cathode repeater for micro-electrodes (Rus))



N.	Essence of some new experiments on color vision. 22 no.6:5-14 N-D '62.	Fiz.v shkole (MIRA 16:2)	z.v shkole MIRA 16:2)	
	1. Institut biofiziki AN SSSR. (Color aence)			
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AFFTC/IJP(C) EWT(d)/FCC(w)/BDS ACCESSION NR: AT3002330 5/2582/63/000/009/0071/0102 AUTHOR: Bongard, M. M. (Moscow) TITLE: Concept of "useful information, SOURCE: Problemy kibernetiki, no. 9, TOPIC TAGS: information, useful, usefulness, redundancy, redundant, channel, location, memory, algorithm, resolving, power, indeterminacy, entropy, coding, decoding, signal, probability, error, carrying capacity, traffic capacity, feedback, language. ABSTRACT: This paper evaluates the concept of the "usefulness" of information transmitted not only in terms of the number of bits transmitted but also in terms of the "difficulty" of the problem which depends not alone on the number of bits transmitted but on the relationship of the observer to the communication thus received also. A system is examined which in the course of the solution of a problem performs experimental work (by the trial-and-error method) and which, thus, acquires certain information which it had not possessed previously. The "difficulty" of the problem for that system is then characterized by some function of the number of trials required for the finding of the solution. In addition, the system can obtain

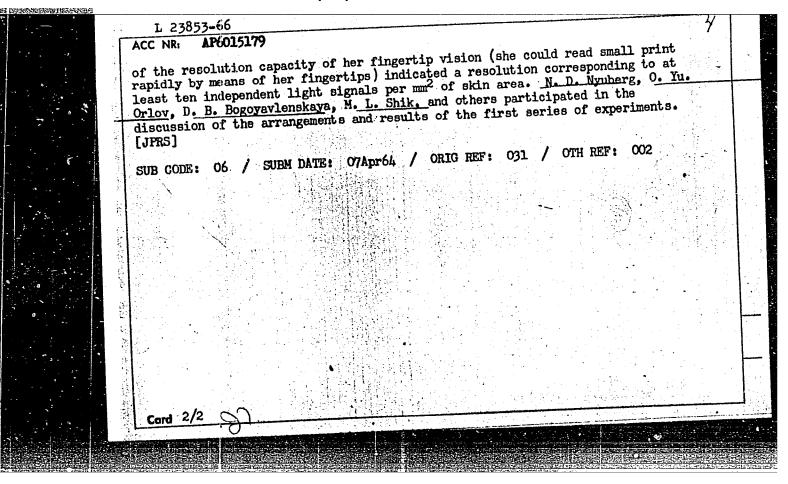
L 759-64 ACCESSION NR: AT3002330

information on the problem through the communications channel. The number of trials and, consequently, the difficulty of the problem is thereby reduced. In the present paper a measure of the difficulty is the logarithm of the mean number of trials. This method yields the simplest relations between the carrying capacity of the communications channel (or the memory capacity) and the maximal reduction of the difficulty that can be had by using that channel (or memory). The problem is posed, the resolving algorithm is set forth, and the "indeterminacy," that is, the logarithm of the mathematical expectancy of the number of probes for a given resolving algorithm in a particular problem. The relationship between the indeterminacy and the entropy is analyzed. The decoding of the signal, that is, the action of the supplementary algorithm connecting the output end of the channel with the resolving algorithm, and the usefulness of the information are discussed. The carrying (or traffic) capacity of a communications channel for useful information and the reserve of useful information in the decoding algorithm are explored. The construction of decoding algorithms is set forth, and the possible existence of problems with one or more solutions is analyzed. Systems with feedback are reviewed. The concepts of "difficulty" and "indeterminacy" are entertained, and an ordinary problem is fully discussed. It is concluded that the usefulness of information is not only a matter of the interrelation of the signal with the communications channel, but also of the alterations introduced by the nature and knowledge of the recipients.

Card 2/3

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五 マンロンフーロロ ACC NR AP6015179 SOURCE CODE: UR/0217/65/010/001/0148/0154 AUTHOR: Bongard, M. M.; Smirnov, M. S. ORG: Institute of Biophysics, AN SSSR, Moscow (Institut biofiziki AN SSSR); Institute of Problems of Information Transmission, AN SSSR, Moscow (Institut problem peredachi informatsii AN SSSR) "Skin vision" of R. Kuleshova SOURCE: Biofizika, v. 10, no. 1, 1965, 148-154 TOPIC TAGS: skin physiology, vision ABSTRACT: Tests and observations carried out at the Institute of Biophysics to verify R. Kuleshova's capacity for vision by means of the skin of her fingertips are described. The tests were carried out under conditions in which the possibilities of suggestion, telepathy, and peeping (although Kuleshova had a tendency to peep) were eliminated. Sensational reports in the popular press to the effect that Kuleshova could see in the dark were disproved and explanations based on sensitivity to infrared, X-rays, or an electrostatic field capacity for skin vision with an ability to see colors with her fingertips by means of three types of receptors with color sensitivity curves corresponding to those of the cones of the eye retina or similar to them. She had color vision on her right hand only, but could see with either hand. Determinations UDC:



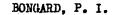
Bougass, P. I.

29,63

K myetodikyg broukhoskopii. Vyestnik otopino laringologii. 1949, No. 4, s. 70-72.

SO: LETCHIS' NO. 40

SR. Sci Assoc, OTO-RHINO-LARYNGOL. Dept Moscow Oblast. Sci-Ros TB INST.



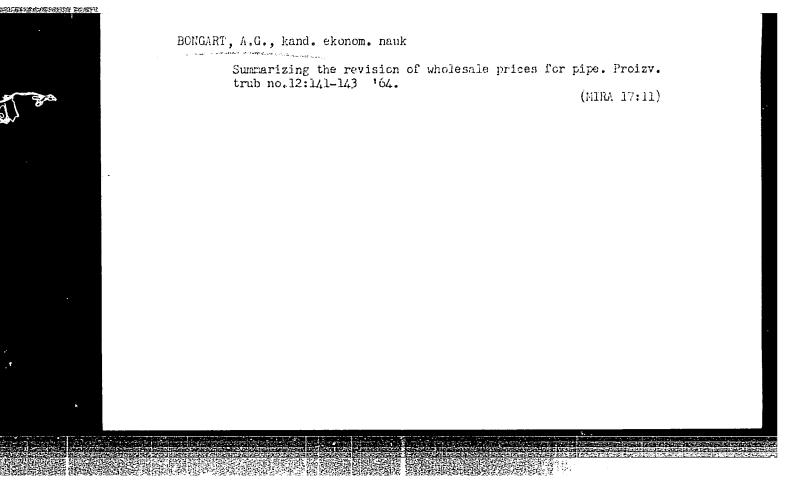
Clinical significance of bronchoscopy in pulmonary tuberculosis. Sovet. med. no. 12:22-25 Dec. 1951. (CLML 21:3)

1. Candidate Medical Sciences. 2. Of the Phthisio-Laryngological Division (Head -- Prof. A. N. Vosnesenskiy), Moscow Oblast Scientific-Research Tuberculosis Institute (Director -- Prof. F. V. Shebanov).

BONGARD, S.A.; VINITSKAYA, M.I.

Effect of light absorption by the matrix film on the gradation of the washed off relief. Usp. nauch. fot. 8:92-96 '62.

(MIRA 17:7)



ARTYUSHIN, L.F.; BONGARD, S.A.

Determining the parameters of the nonlinear color-separation correction. Zhur. nauch. i prikl. fot. i kin. 9 no.3:174-183
My-Je '64. (MIRA 18:11)

1. Vsesoyumny nauchno-issledovatel skiy kinofotoinstitut (NIKFI). Submitted March 20, 1963.

"Investigation of the Dye Yield During the Colored Development of the Photographic Image." Sub 8 Feb 51, Sci Res Cinephotographic Inst (NIKFI).

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

CANd. Chemical Sci.

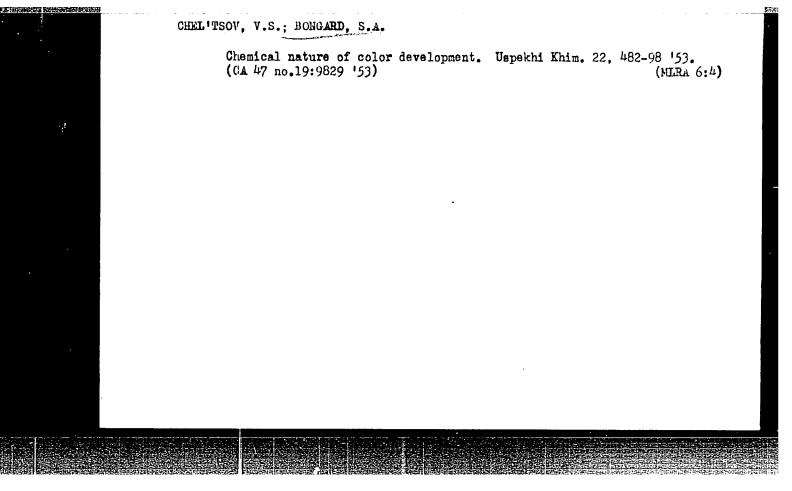
CHELTSOV, V. S.

S. A. BONGARD, A. N. IORDANSKIY, V. S. CHELTSOV

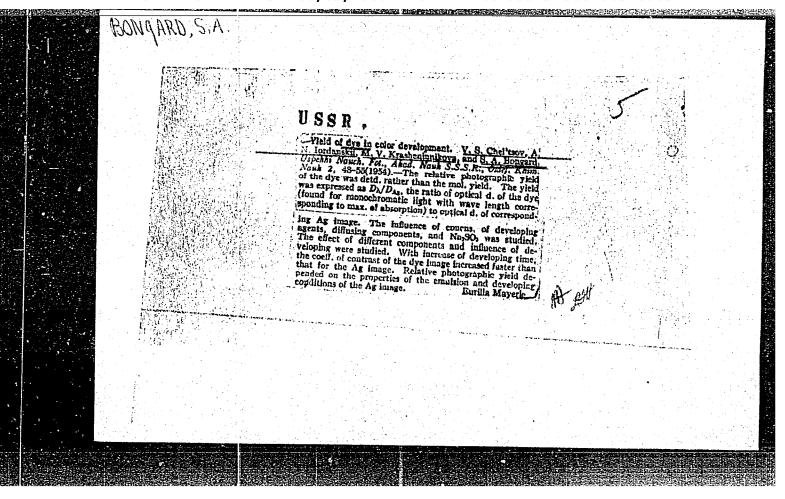
"Yield of Dyes During Color Development," Doklady Akad Nauk (USSR) 84: 81-84, No. 1, 1952

One of the authors, Iordanskiy, has worked extensively in the color developer field. This publication, like most of his earlier ones, contributes very little, if any, to existing knowledge. All it does is add some more evidence to the already well-established stoichiometric relationships of dye formation by color development. Like all of the earlier papers by this author, this one is woefully inadequate in that most of the experimental details are missing, so the reliability of the conclusions cannot be assessed. Specifically, the conclusions in this paper are based on a molar dye-to-silver ratio, which can be determined only if the pure dyes are at hand for calibration purposes. Nowhere in the paper is mention made of the pure dyes and their characteristics.

IX



29736 IMMERTO, S. A. USSR/Chemistry - Photographic Jan 53 "Quantitative Relationships in the Reaction of the Formation of the Blue Dyestuff in Color Development," Yu. B. Vilenskiy and S. A. Bonzard, All-Union Sci-Res Cine-Photo Inst, Movie Film Factory Zhur Prik Khim, Vol 26, N 1, pp 89-95 Demonstrated that solns of 4-p-diethylaminoanil octadecylamide of 1,4-naphthoquinone-2-carboxylic acid in some organic solvents obey Buger's rule within the concn range of 10<sup>-3</sup> to 10<sup>-5</sup> moles/liter. 257**T**38 Established that the dyestuff in the developed photographic image in the gelatin layer follows Buger's rule. Detd the relationship between surface concn of the dyestuff and the optical density of the colored image. Demonstrated that the yield of blue dye during light development reaches 94% of theoretical.



MONGARD, S.A.

USSR/Chemical Technology - Chemical Products and Their Application. Photographic Materials, I-19

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63030

Author: Bongard, S. A.

Institution: None

Title: Use of Multiple-Layer Color Films in the Technicolor Method of Color Motion Picture Photography

Original

Periodical: Zh. nauch. i prikl. fotografii i kinematogr., 1956, 1, No 1, 67-69

Abstract: The Technicolor Company in the United States produces color motion picture films by recording on a multilayer film and positive printing by the hydrotype method. Quality of the films is continuously improved as a result of perfectioning of color films and use of masking. At the present time technicolor prints directly on a master film from color negative. The set of Tricolor films manufactured by the Kodak Company includes 3 master films sensitized for different regions of

the spectrum. In the emulsion layer of each film is included a dye

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Photographic Materials, I-19

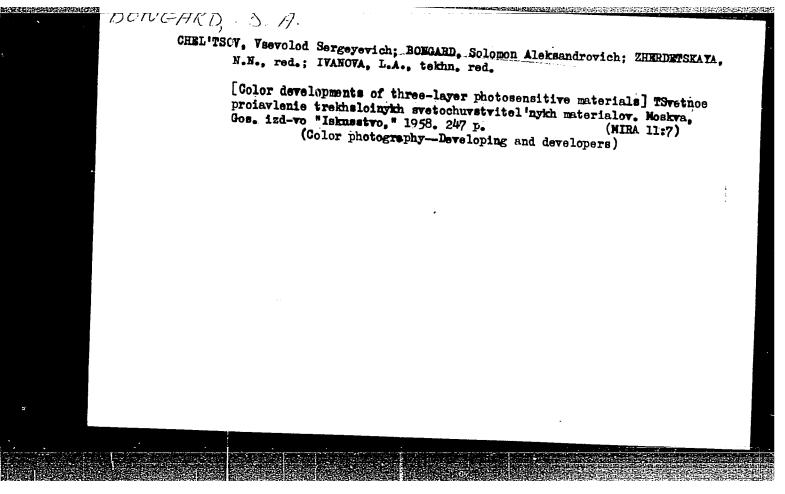
Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63030

Abstract: which absorbs the radiation of that zone of the spectrum to which the film is sensitive. Printing of master positives directly from color negative permits greatly to improve sharpness of images. Use of a set of Tricolor films and improvement of hydrotype transfer process make it possible to produce films which meet the requirements of projection

upon a wide screen.

Card 2/2

	The structure of color motion-picture films and the clarity of the photographic image. Zhur. nauch. i prikl. fot. i kin. 2 no.3:198-					
	201 My-Je !57.		(MIRA 10:6)			
	1. Vsesoyusnyy nauchno-issledovatel skiy kino-fotoinstitut i fal					
	No.3 GUPP.	(Color cinematography)				
•						
			•			



CHEL'ITSOV, V.S., kand.khim.nauk; BONGARD, S.A., kand.khim.nauk;
IORDANSKIY, A.N., kand.teskin.nauk

Present-day methods of producing color photographs. Khim.nauk i
prom. 3 no.5:576-587 '58. (MIRA 11:11)

(Color photography--Three-color process)

23(0)

AUTHOR:

Bongard, S. A.

SOV/30-59-9-27/39

TITLE:

Theory and Technology of Processes of Colored Photo-

graphy

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 9, p 104 (USSR)

ABSTRACT:

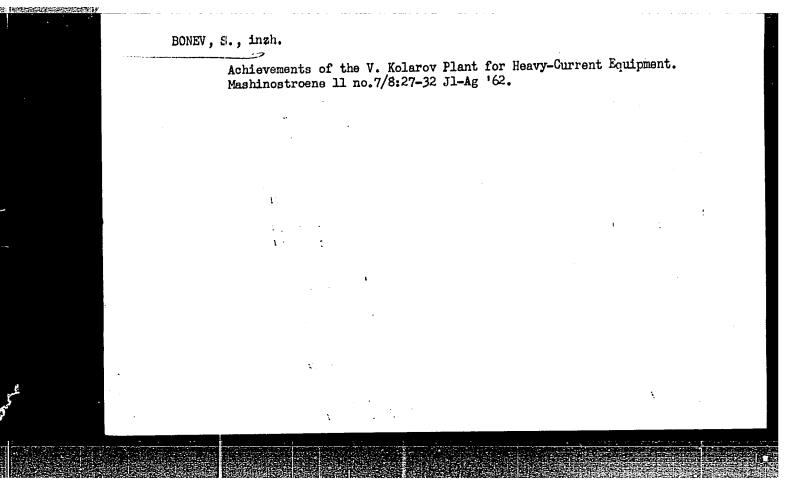
The Komissiya po nauchnoy fotografii i kinematografii Akademii nauk SSSR (Commission for Scientific Photography and Cinematography of the Academy of Sciences, USSR), the Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut (All-Union Scientific Cinema- and Photography Research Institute) and the factory Nr 3 of the Khar'kovskiy sovnarkhoz (Khar'kov Council of National Economy) convened a conference at Shostka between May 29 and June 1. Theoretical and technological problems of the processes of colored photography were discussed by numerous representatives of 35 scientific- and training institutes, as well as of industrial enterprises. Comparatively little attention was

Card 1/2

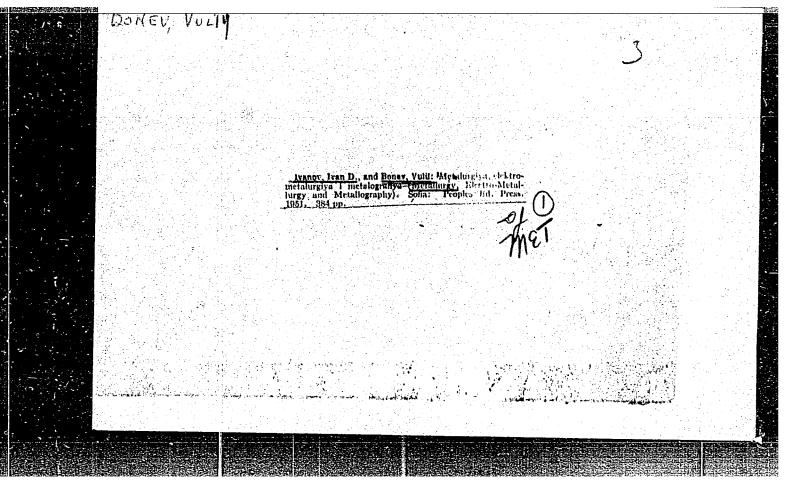
Theory and Technology of Processes of Colored Photography

paid to the chemico-photographic treatment of colored films. Research work in this field should be considerably intensified.

Card 2/2



"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206310005-4



DONEY, YE.

BULGARIA/Cultivated Plants - Grains.

Μ.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15531

Author

Ye. Bonev

Inst Title

: Valuable Hybrid Corn Seeds.

(Tsennyye gibridnyye semena kukuruzy).

Orig Fub

: Kooperat. zemledeliye, 1957, No 2, 14-15

Abstract

: Hybrid corn seeds from intervarietal crossings were widely introduced in Bulgaria in production sowings in 1954. Sowings with hybrid seeds covered in 1955 3,400 hectares, 1956 had 24,480 hectares and the sowing plan for 1957 comprises 230,000 hectares. A large number of yield comparisons have been made of harvests coming from the hybrid seeds and those from local corn variety sowings. The boosted harvest obtained from hybrid seed sowings varied according to the individual rayons from 1 to 12 centners per hectare.

Card 1/2

BULGARIA/Cultivated Flants - Grains.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15531

In rayons where there are local varieties, it is necessary to make similar avaluations of the local varieties and intervarietal hybrids.

Card 2/2

BONEVA, A.

Determining and utilizing the productive forces of the rolling mill at the Lenin Metallurgic Plant.

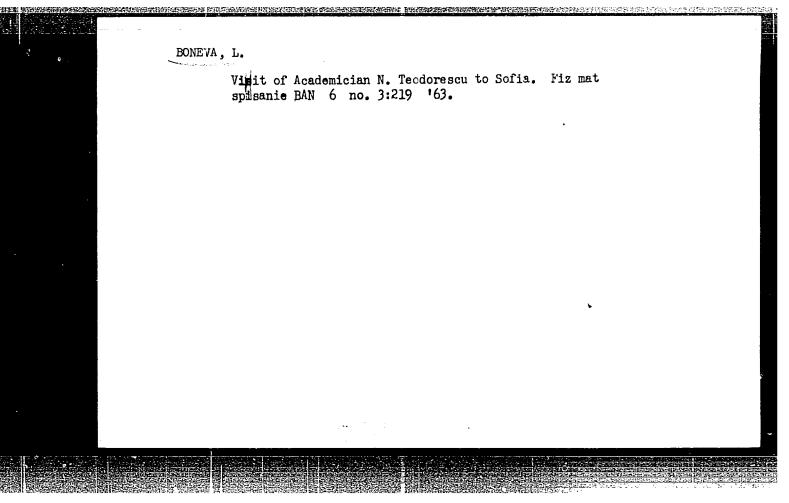
p. 5 (TEZHKA PROMISHLENOST) Vol. 6, no. 7, July 1957, Sofiia, Bulgaria

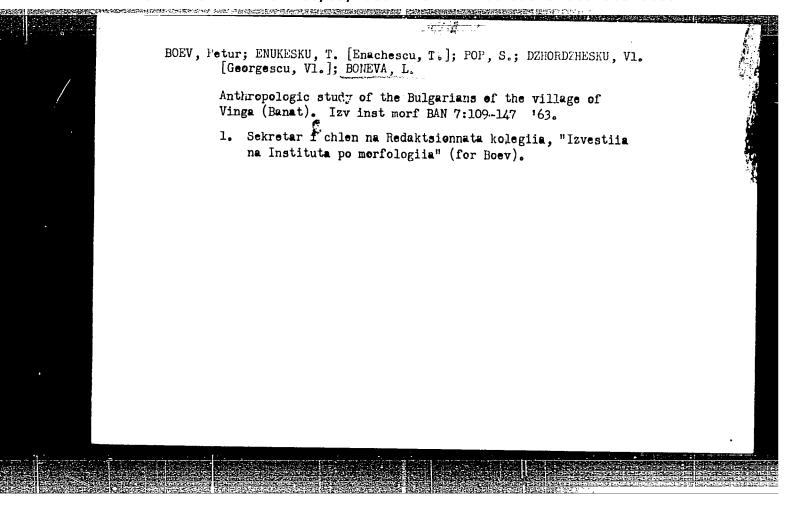
SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

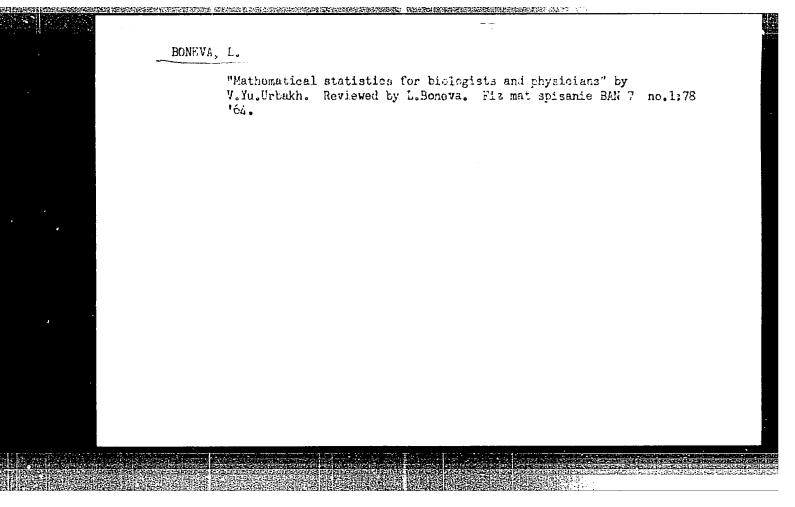
IVANOV, N.; GYUZELEV, M. [Giuzelev, L.]; BONEVA, A.

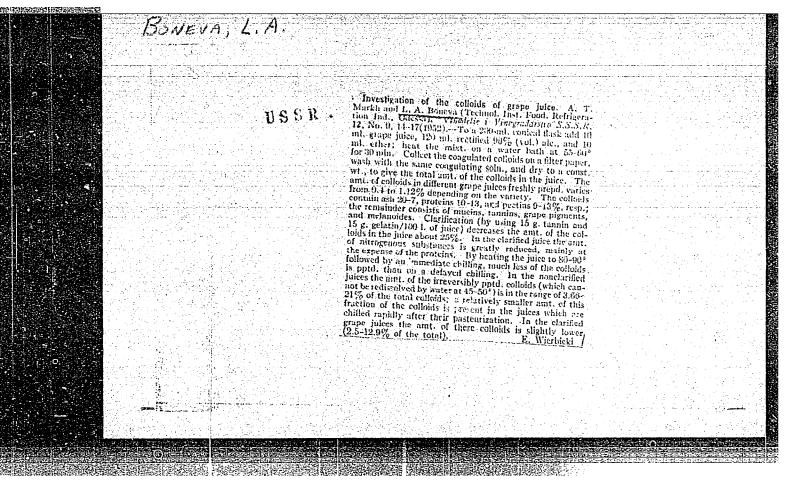
Objective indices on tobacce combustibility. Doklady BAN 16 no.1:77-80 '63.

1. Submitted-by Academician D. Ivanov.









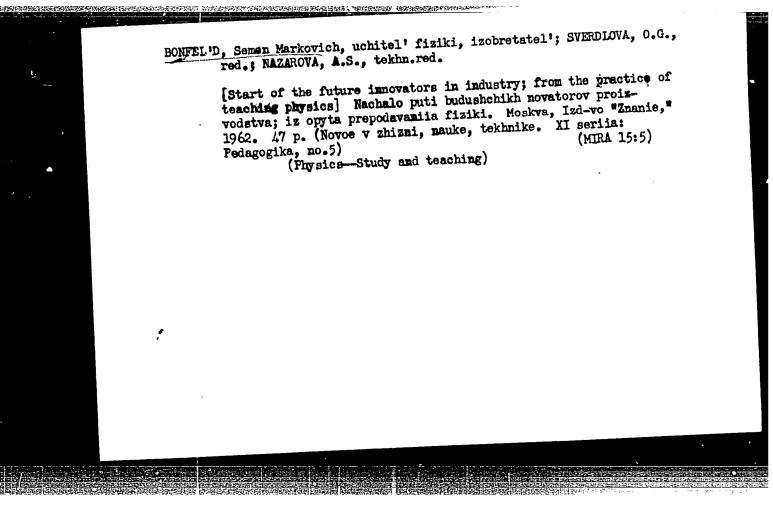
TSVILING, A., Ya., 5. BONEVA, L.A.

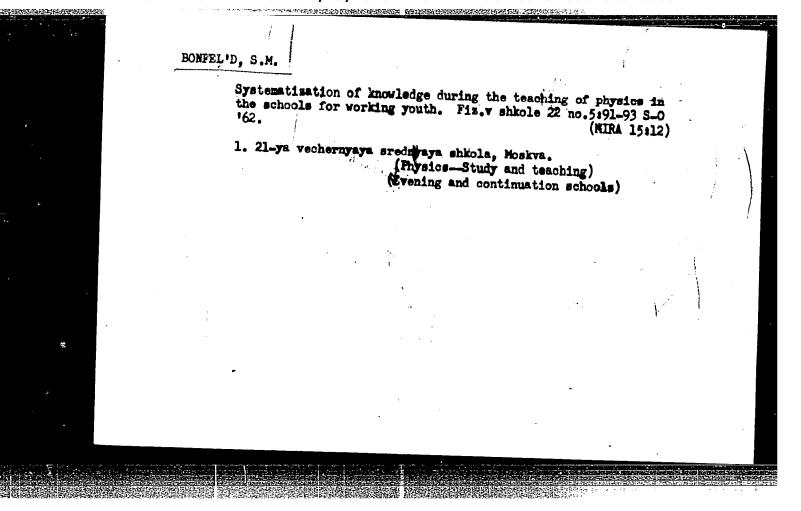
Objective methods of quality inspection of tomato products.

Kons.i ov.prom. 17 no.6:39-41 Je '62. (MIRA 15:5)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti.

(Tomato products—Testing)





KUDRYASHOV, B.A.; BAZAZ'YAN, G.G.; BONFITTO, L.L.

Blood lipoprotein lipase and its properties as a component of the physiological anticoagulant system. Vop. med. khim. 9 no.5:533-535 S-0 163. (MIRA 17:1)

1. Laboratoriya fiziologii i biokhimii svertyvaniya krovi (zav. - prof. B.A. Kudryashov) Moskovskogo gosudarstvennogo universiteta imeni M.V. Lomonosova.

HUNGARY / Physical Chemistry. Kinetics. Combustion. B Explosions. Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No. 24, 11958, 80705.

Author .: Bongar J., Sarosi S.

Inst : Not given.

Title : Kinetics of Autooxidation of Indine in the Sol-

utions of Divalent Mercury Salts. Potenciometric Titration of Arsenic and Antimony with

Potassium Iodate.

Orig Pub: Magyar. kem. folyoirat, 1957, 63, No 2-3, 46-52.

Abstract: The reaction equilibrium  $I_2 \neq H_20 = IOH^- \neq H \neq IOH^-$  in solutions of  $Hg(2 \neq I)$  salts is shifted to the

in solutions of  $Hg(2 \neq)$  salts is shifted to the right as the result of I consumption in the formation of  $HgI_2$ . Action of the Hg ions is anological to that of Ag ions. IOH formed in the solutions of  $Hg(NO_3)_2$  or  $Hg(ClO_4)_2$  (0.00)

Card 1/2

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19

Explosions. Topochemistry. Catalysis.

Abs Jour: Ref Zhur-Khimiya, No 24, 1958, 80705.

Abstract: n concentration) is converted into iodate in accordance with the 2<sup>d</sup> order reaction. Conversely, at high concentrations (in solutions of HgSO<sub>4</sub> or HgCl<sub>2</sub>) an order of the reaction becomes more difficult to establish. It is noted that As (3/) and Sb (3/) salts may be titrated directly with iodates (formation of I<sub>2</sub>) in the presence of Hg(2/) salts. Analogically, it is possible to conduct determination of As and Sb in the presence of Ag salts. The most suitable concentration of salts for Sb is

0.5-1.5 n.

Card 2/2

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206310005-4"

BONGARD, E.M.; SHLYAPIN, V.F. (GOR'KIY)

Clinical aspects of ethylene oxide poisoning. Gig. truda i prof. zab. 4 no.2:9-13 F '60. (MIRA 15:3)

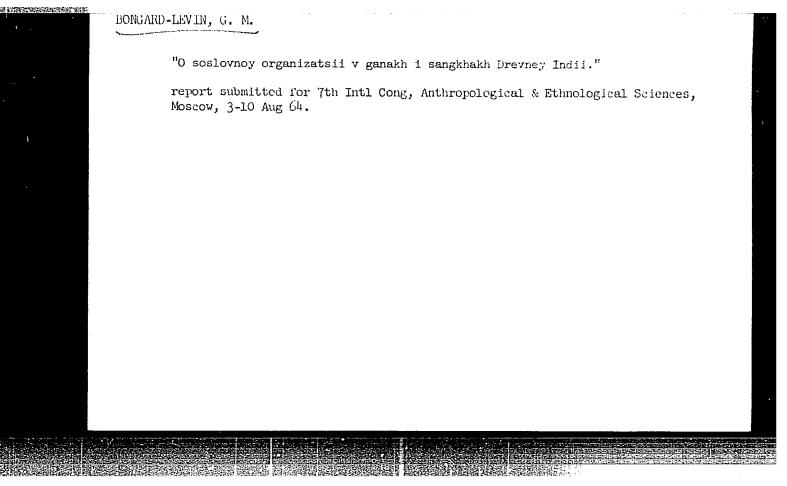
# Vascular disorders in chronic intoxication with tetraethyllead. Kas. med. zhur. no.6:72-73 N-D '61. (NIRA 15:2) 1. Klinicheskiy otdel (zav. - prof. S.I.Ashbel') Gor'kovskogo nauchno-isoledovatel'skogo instituta gigiyony truda i profzabolovaniy. (LEAD\_FOISONING) (BLOOD VESSELS\_\_DISEASES)

FAYERMAN, I. S.; BONGARD, E. M.; ZHALNINA, L. V.; SHAPKINA, T. G.; SOINA, A. Ya. (Gor'kiy i Volgograd)

Some characteristics of the clinical course of acute mercaptophos intoxication. Gig. truda i prof. zab. no.12:45-47 (MIRA 1/:12)

1. Gor'kovskiy institut gigiyeny truda i profbolezney, Volgogradskaya bol'nitsa No. 13.

(MERCAPTOPHOS \_\_TOXICOLOGY) (POISONING)



PRUGLO, N.V.; SPASCKUKOTSKIY, N.S.; BONGARD, S.A.

Effect of the introduction of polymer bases on the fixation of acid dyes in gelatine layers. Part 2: Microscopic study of matrix prints on layers with various polymeric bases.

Zhur. nauch. i prikl. fot. i kin. 10 no.5:360-365 S-0 '65.

(MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstituta (NIKFI).

s/137/61/000/011/051/123 A060/A101

AUTHORS:

Nikolayevskiy, Yu. I., Spivakovskiy, L. I., Bongart, A. G.

TITLE:

Determination of the heat-treated steel pipe demand by the USSR

national economy for 1959 - 1965

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 35, abstract 11D205 ("Sb. nauchn. tr. Vses. n.-i. in-t organiz. proiz-va i truda v chern. metallurgii", 1960, no. 1, 71-78)

The demand for heat-treated pipes was determined according to the nomenclature adopted by the Gosplan of the USSR and by the Soyuzglavmetal. All pipes are divided into three groups of steel grades (carbon, alloy, and stainless) and each of the groups of steel grades - is again subdivided into groups according to the GOST and the TU classifications on the basis of the principle of uniformity of heat-treatment. From the capacities extant in 1957-1958, the amount of heat-treated pipes in the total production by the end of the seven-year plan will constitute (by weight percentage for various types of pipe): thin-walled seamless 100, electric-welded thin-walled 87, drawn 100, rolled 24, oil assortment 16.5, electric-welded large-diameter 50. In all, 18.3 % of the total pipe

Card 1/2

Determination of the heat-treated ...

S/137/61/000/011/051/123 A060/A101

produced will be subjected to heat-treatment, i. e. their proportion exceeds that of 1957 by a factor of 3.8. The increase in the means of pipe heat-treatment will make it possible to ensure the substitution of electrically welded pipe for mechanically welded manufacture, and will, in large measure, provide the oil industry with high-strength and economically convenient drilling and casing pipes. Besides, this will make it possible to produce welded pipes of larger diameters, high reliability and a thinner wall (thus effecting a considerable metal economy) and to master the production of new types of high strength pipe from low-alloy steels (in particular with  $6 - 75 \, \text{kg/mm}^2$ ), and also from new materials.

Ye. Trifonov

[Abstracter's note: Complete translation]

Card 2/2

ZIL'BERSHTEM, L.I., kand. tekhn. nauk; BONGART, A.G., kend. ekonow. nauk; SHKABATUR, K.I., inzh.; MIZERA, V.I., inzh.; VOL'PER, Yu.D., inzh.

Wetal consumption coeffficients in the production of small and medium diameter, electrically welded pipe. Proizv. trub no.10:62-66 '63.

(HIRA 17:10)

