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USSR/Cultivated Plants. Fruits. Berries.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20508.

1 vine. An increase in berry weight and sugar content and a reduction in acidity were noted.

Card : 2/2

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DOBROLYUBSKIY, O.K., kandidat khimicheskikh nauk.

Foliar nutrition with trace elements. Priroda 45 no.10:85-88 (MLRA 9:11) 0 56.

1. Odesskiy sel'skokhozyaystvennyy institut. (Fertilizers and manures)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620004-4 DobAdlyubiriv, C.K. Category: USSR/General Division. Congresses. Meetings. Conferences. A-4 Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21355 Author : Dobrolyubskiy, O.K. : not given Inst : More Attention to Implantation of Trace Elements. The Title All-Union Conference on Trace Elements. Orig Pub: Byul. Mosk. o va ispit. prirodi, otd. biol., 1956, 61, No. 2, 107-112 Abstract: No abstract. Card : 1/1 -15-

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USSR/Culti	.vat	ted Plants - Fruits. Berries.	м-6
Abs Jour	;	Ref Zhur - Biol., No 7, 1958, 29990	
Author	:	Dobrolyubskiy, O.K.	
Inst	:	Odessa Agricultural Institute.	
Title	:	What Micronutrients Contribute to Fruit Crops.	
Orig Pub	:	Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 195 No 3, 14-16.	7,
Abstract	:	This study of the influence of micronutrients on the d velopment and productivity of cherries, apricots, peac plums, apples, black currants, strawberries both garde and wild was made at the Odessa Agricultural Institute 1953-1956. The side-dressing with micronutrients incr the yield and its quality. A concentration of solutio Zn, Mn, B, Cu, Co, Cr and Mo is recommended.	hes, n in eased
Card 1/1			

- 2 -

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

USSR/Cultivated Plants - Fruits. Berries. М Abs Jour : Ref Zhur Biol., No 12, 1958, 53833 Author : Dobrolyubskiy, O.K. Inst : -Title : Microelements in Vitibulture and Wine Making Orig Pub : Vinodeliye i vinogradarstvo SSSR, 1957, No 3, 19-22 Abstract : This article points out the significance of microelements in creating definite properties in different wines. Top dressing with microelements is recommended for the grape vines. The application of the microelements can be combined with the spraying with Bordeau solution.

Card 1/1

- 137 -

USSR/Cultivated Plants. Fruit Trees. Scall Fruit Plants. Abs Jour: Ref Zhur-Diol., No 17, 1958, 77859. Author : Dobrolyubskiy, O.K.; Slavvo, A.V. Inst : Title : After Effect of the Micronutrient of Chrone on Grapes. Orig Pub: Sad i ogorod, 1957, No 5, 66.

Abstract: As a result of spraying of Aligote grapevines in the Odessa Agricultural Institute with a solution of chronium sulfate, the saccharinity was increased by 17.2-18.45%, acidity was decreased from 11.35 to 9.9 mg/eqv/1, ripening of the harvest was accelerated (glucoacidimeter indicator increased from 1.51 to 1.86) and the harvest increased by 10 c/ha. -- P. Kh. Kiskin.

: 1/1 Card

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COUNTRY CATEGORY	: ;	USSR Plant Physiology. Mineral Nutrition. I
ABS. JOUR.	:	RZhBiol., No. 6 1959, No. 24543
AUTHOR INST. TITLE	* * *	Dobrolyubskiy, O.K.; Slavvo, A.V. Academy of Sciences, USSR Change of Some Oxygen Reduction Processes In Grapes Under the Influence of Microelements
ORIG. PUB.	:	Dokl. AN, USSR, 1957, 117, No. 6, 1064-1067
ABSTRACT	:	Grape plants were sprayed with a weak solution of sulfates of microelements (Co, Cr and Zn). In all cases a speeding up of ripening of the berries and an increased yield was observed, as well as a rise in fructose content, increased activity of peroxi- dase and polyphenoloxidase in the leaves, and an increase of total oxidizability of leaf tissues (determined by the Krasinskiy method). The work was performed at the Odessa Agricultural Insti- tuteO.V. Bogdashevskaya.
CARD: 1/1		19

Debrelyubsky, E. C.K.         USSR/Chemical Technology - Chemical Products and Their Application. Fertilizers.         Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 1905         Author : Dobrolyubskiy K.K.         Inst : Novocherkassk Polytechnic Institute         Title : Fritts A New Fertilizer         Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55         Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.         Card 1/1	Dil		
<ul> <li>Application. Fertilizers.</li> <li>Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 1905</li> <li>Author : Dobrolyubskiy A.K.</li> <li>Inst : Novocherkassk Polytechnic Institute</li> <li>Title : Fritts A New Fertilizer</li> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MoO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>			
<ul> <li>Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 1905</li> <li>Author : Dobrolyubskiy X.K.</li> <li>Inst : Novocherkassk Polytechnic Institute</li> <li>Title : Fritts A New Fertilizer</li> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MOO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>	USSR/Chemic	cal	. Technology - Chemical Products and Their H-3
Author       : Dobrolyubskiy M.K.         Inst       : Novocherkassk Polytechnic Institute         Title       : Fritts A New Fertilizer         Orig Pub       : Udobreniye i urozhay, 1957, No 7, 54-55         Abstract       : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.			Application. Fertilizers.
<ul> <li>Inst : Novocherkassk Polytechnic Institute</li> <li>Title : Fritts A New Fertilizer</li> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MoO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>	Abs Jour	:	Referat Zhur - Khimiya, No 1, 1958, 1905
<ul> <li>Inst : Novocherkassk Polytechnic Institute</li> <li>Title : Fritts A New Fertilizer</li> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MoO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>	Author		0, Dehnelspikelet v. N. K
<ul> <li>Title : Fritts A New Fertilizer</li> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MoO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>	Aumor	•	LODICLYUDSKLY W.K.
<ul> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MoO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>	Inst	:	Novocherkassk Polytechnic Institute
<ul> <li>Orig Pub : Udobreniye i urozhay, 1957, No 7, 54-55</li> <li>Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO<sub>2</sub> 21, MoO<sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.</li> </ul>	Title	:	Fritts A New Fertilizer
Abstract : Description of the results of field experiments, with maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.		•	
maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.	Orig Pub	:	Udobreniye i urozhay, 1957, No 7, 54-55
maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.			
maize, in the souther chernozem of the Odessa area, on investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.	Abstract	:	Description of the regults of field experiments with
investigation of the effects of fritts, produced at the Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.		•	maize, in the souther chernozem of the Odessa area, on
Novocherkassk Polytechnic Institute, containing one of the minor-lements in the following amounts (in 5): ZnO 19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.			investigation of the effects of fritts, produced at the
19, MnO <sub>2</sub> 21, MoO <sub>3</sub> 4.5, and also a mixture of the oxides of B, Mn, Cu, Zn, Fe and Mo.			Novocherkassk Polytechnic Institute, containing one of
of B, Mn, Cu, Zn, Fe and Mo.			the minor-lements in the following amounts (in 5): ZnO
			19, Milo 21, Molo 4.5, and also a mixture of the oxides
Card 1/1			
Card 1/1	<b>a b b</b> (b)		
	card 1/1		

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ı	CATEGORY : ABS. JOUR. : RZBiol., No. /9 1958, No. 87251	
	AUTHOR : <u>Dobrolyubskiy</u> , O. K.; Slavvo, A. V. INST. : Odessa Agricultural Institute TITLE : The Effect of Some Minor Elements on Grupes	
	ORIG. PUB. : Tr. Odessk. skh. in-ta, 1957, 8, 49-63	
	ABSTRAGT : On chernozem soils of southern Ukrainian SSR (Odesskaya Oblast') a study was made of the effect on vield and quality of grapes, of Zn and Co, on their appli- cation during autumn, in the spring before flowering, and as a spray (spraying of flower clusters before blooming). The sulfates of Zn and Co were used in different concen- trations. The effect of both minor elements was favorable regardless of the manner in which they were applied. On autumn application to the soil the best results were ob- tained with a concentration of 3 g Zn per vine, and cf 0.1 g Co per vine. On spring application to the soil the effect of the minor elements was less strongly manifested. CARD: 1/2	

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Country : CATEGORY :	
ABS. JOUR. :	RZB101., No. 19, 1958, No. 37251
AUTHOR : INST. : TITLE :	
ORIG. PUB. :	1
) g, and that of minor elem ticularly at grapes was in sugar content Wo screyings and STLAD der	: Uptimal house of 2n was also found to be t of Co C.1 g per vine. Spray applications ments had a good effect on the grapes, par- docages of C.005 g 2no0, per vine (weight of noreased by 56%, their volume by (3%, and t by 10%), and of 0.00002 g Cos0, per vine. s of the vines with Co <sub>2</sub> (EC <sub>4</sub> ), before blooming ys after it, accelerated ripening, increased ntent of the grapes, accelerated fermentation expressed from the experimental graves, with

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## DOBROLYUBSKIY, O.K.

"Foliar feeding of agricultural plants." Reviewed by O.K. Kobroliubskii. Bot.zhur. 42 no.3:480-484 Mr 157. (MIRA 10:5)

1.Odesskiy sel'skokhozyaystvennyy institut. (Fertilizers and manures)

## DOBROLYUBSKIY, O.K.

▲ useful book on photosynthesis ("Photosynthesis, the nutrition of plants through the use of light and carbon" by A.A.Nichiporovich. Reviewed by O.K.Dobroliubskii). Biul.MOIP. Otd.biol. 62 no.3: 96-99 Hy-Je '57. (MIRA 10:8) (PHOTOSYNTHESIS) (NICHIPOROVICH, A.A.) (MIRA 10:8)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

11 USSR/Cultivated Plants, Fruits, Borries. Abs Jour : Rof Zhur-Biol., No 15, 1958, 68376 : Dobrolvubskiy, O. K., Slavvo, A. V. : Odessa Agricultural Institute.AS USSR. Author Inst : Use of the Microelement, Nickel, for Grape-Title vine Nutrition. Orig Pub : Dokl. AN SSSR, 1957, 112, No 2, 347-349 Abstract : The results of field experiments which were performed at the vineyards of the Odessa Agricultural Institute's study farms and in which NiSo, was applied in a dosage of 0.05 grams in 0.5 liters of water per bush (the soil is southern chernozem [Black soil], pH of 7.2-7.3), indicate that the weight of the grapes increased by 23 percent whereas the quality of them was : 1/2 Card

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"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

USSR/Cultivated Flants. Fruits. Borries. И Abs Jour : Ref Zhur-Biol., No 15, 1950, 68376

> unchanged. In other experiments with NiSOA, the grape yield increased from 35.0 to 43.8 centnors/centaro. In this experiment, the effect of NiSO4 was meant to accelerate the ripening of higher quality grapes. The results achieved by using various concentration of NiSO4 did not show great differences and M. Shekenstill show great differences. --- A. H. Shchepetil --

Card : 2/2

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AUTHORS :	DOBROLYUBSKIY, O.K. Dobrolyubskiy, O. K., and Slavvo, A. V., 20-6-40/47
TITLE:	Modifications of Some Redox Processes in Vitis vinifera Under the Influence of Trace Elements (Izmeneniya nekotorykh okislitel' no-vosstanovitel'nykh protsessov v vinograde pod vozdeystviyem microelementov)
PERIODICAL:	Doklady AN SSSR, 1957, Vol. 117, Nr 6, pp. 1064-1067 (USSR)
ABSTRACT :	The great influence exerted by trace elements upon the processes of development of all organisms may be explained by the chemical peculiarities of the respective compounds. In the periodic law most of the trace elements belong to the group of d-elements, i.e. of such in which the quantum number of the last electron capable of annexation is d. When the chemical elements with numbers from 24 to 29 are examined (Cr, Mn, Fe, Co, Ni, and Cu) it is seen that they may all lose their electrons not only from the last energetic level but also from the incomplete last but one level. These chemical elements in a different manner show positive va- lence, especially in complex and inner-complex compounds. They thus become metal components of various complicated organic sub- stances, especially enzymes. In biochemical processes trace ele- ments are above all co-enzymes. Their part is by no means restric-
Card $1/3$	ted to the sole acceleration of spontaneously occurring chemical

Modifications of Some Redox Processes in Vitis vinifera Under 20-6-40/47 the Influence of Trace Elements.

> reactions. The presence of a single trace element in the absence of others is often capable of obstructing this or that process. Therefore a kind of certain, well coordinated ensembles of quantity- and trace-elements with an adequate mutual energetic action must participate in the reactions. Trace elements may not only play the part of catalysts, but also of promotors and inhibitors of various reactions in organisms. The trace elements are above all capable of influencing the total oxidizability of the tissues. Corresponding redox processes are accompanied by modifications of the enzymatic activity of the grapes. Among various enzymes the oxidases which activate the molecular 02 are of greatest importance. An increase in the activity of oxidases leads to the accumulation of sugars, increases the glucose-acidometrical index and thus accelerates the ripening of the grapes. In the authors' tests  $2nSO_4$  (5.10<sup>-3</sup> g salt per vine) and  $CoSO_4$  as well as  $Cr_2(SO_4)_3$  (both salts 5.10<sup>-5</sup> g per vine) were added to the Bordeaux mixture. Figure 1 shows the oxidizability of the tissue of the vine-leaves under the influence of  $Co^{2+}$  and  $Cr^{3+}$ . It was higher than in the control in which the vines were only treated with Cu<sup>2+</sup>. About the same rules were determined for the grapes. Figure 2 shows the

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Modifications of Some Redox Processes in Vitis vinifera Under 20-6-40/47 the Influence of Trace Elements.

> increase in the activity of the peroxidase in the vine-leaves. In the leaves (and grapes) of the vines treated with  $2n^{2+}$ ,  $Co^{2+}$ and  $Cr^{2+}$  it was higher than in the control. From figure 3 may be seen an analogous effect of these trace elements upon the activised by the polyphenol-oxidase. The sugar content was also increased by the trace elements (table 1). From the above-mentioned fact follows an acceleration of the ripening of grapes. The crop fluences the grapes in a similar manner. There are 3 figures, 1 table, and 11 references, 8 of which are Slavic.

ASSOCIATION:	Odessa Agricultural Institute (Odesskiy sel'skokhozyaystvennyy
PRESENTED:	June 28, 1957, by A.L. Kursanov, Academician
SUBMITTED:	February 4, 1957
AVAILABLE: Card 3/3	Library of Congress

APPROVED FOR RELEASE: 06/12/2000

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TITLE: A	Book on Chemical Equations (Kniga o khimicheskikh uravneniyakh)
PERIODICAL: Iz	zvestiya vysshikh uchebnykh zavedeniy.Khimiya i khimicheskaya ekhnologiya, 1958, Nr 1, pp. 185-188 (USSR)
"( A. t: c: t: n t f l b	n the following book oriticism the author comments upon the book Chemical Equations" (Khimicheskiye uravneniya) by .A.Kudryavtsev, which was recently published in the USSR. Par- cicular attention was paid by the author of this book to pro- cesses of oxidation and reduction. In spite of the fact that cri- cicism was, on the whole, favorable, the following faults are mentioned: Classification of chemical reactions, oxidation-reduc- tion, and exchange reactions is of too general a nature and does not supply a sufficient amount of detailed information. Further, the lack of uniformity of expressioning equations is oriticized. In conclusion, the fact is, however, stressed that the book will be a great aid to young chemists. The large number of misprints is, however, oriticized, and the oritic ends his critical review by mentioning a number of inappropriate expressions and formula-

A Book on Chemical Equations 153-58-1-28/29 tions used. There are 3 references, 3 of which are Soviet.

Card 2/2

DOBROLYUBSKIY, O.K.; SLAVVO, A.V.

an the state of the second Use of potassium -naphtoxyacetate and 2,4-dichlorophenoxy-acid in viticulture. Fisiol. rast. 5 no.2:190-193 Mr-Ap '58. -butyric (MIRA 11:4)

1.Odesskiy sel'skokhozyaystvennyy institut, Odessa. (Viticulture) (Growth promoting substances)

## DOBROLYUBSKING O.K.

Valuable book on microelements ("Microelements in agriculture" by M. IA. Shkol'nik and N.A. Makarova. Reviewed by O.K. Dobroliubskii; Zemledelie 6 no.11:85-87 N '58. (MIRA 11:11) (Trace elements) (Shkol'nik, M. IA.) (Makarova, N.A.)

AUTHOR :	Dobrolyubskiy, O.K., Candidate of Chemical Sciences (Odessa)
TITLE:	Frits (Fritty)
PERIODICAL:	Nauka i Zhizn', 1958, Nr 3, p 79 (USSR)
ABSTRACT :	The author describes the use of frit, which was developed an first applied in the USA, as a fertilizer.
AVAILABLE:	Library of Congress
Card 1/1	1. Fertilizer-Synthetic

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26-58-2-23/48

AUTHOR:	Dobrolyubskiy, O.K., Candidate of Chemical Sciences
TITLE:	Pre-Sowing Treatment of Seeds with Trace Elements (Preaposev-
PERIODICAL:	Priroda, 1958, Nr 2, pp 95-97 (USSR)
ABSTRACT	The author deals with the treatment of seeds with minute traces of elements - compounds of zinc, manganese, copper, boron, cobalt, nickel, chromium, etc in solution before sowing. He mentions the experiments carried out in this field by M.Ya. Shol'nik, N.A. Makarova, Ye.S. Klimova, A.Ya. Kokih, Ye.I. Tarasov and M.N. Muzalev of the Petrozavodsk State University and by the Odessa Agricultural Institute in various regions of the Ukraine. The elements affect changes in the seed's embryo which, by the division of the cells, is passed on to the whole plant and can affect all stages of its development and function- ing. Ya.E. Ekster and K. Nurmagambetov, Yu.N. Shcherbakov and F.Ye. Malenev have also been active in this field. The climatic, seesonal and soil conditions encountered when the treated seeds are planted are very important and have a radical effect on the
Card 1/2	are planted are very important and have a gosudarstvennaya success of the treatment. The Kinel'skaya gosudarstvennaya

Pre-Sowing Treatment of Seeds with Trace Elements

26-58-2-23/48

selektsionnaya stantsiya (Kinel' State Selection Station), Kuybyshev oblast', has carried out successful experiments on developing the resistance of plants to frost by treating corn seeds with an aluminum solution and subjecting the sprouts with 4-5 leaves to a 5° C frost for 24 hours. Yu.Ye. Novitskaya has stated that trace elements can change the intensity of the transpiration of the leaves, intensify photosynthesis, influence the carbohydrate metabolism, the ascorbic acid content, catalysis in the tissues. There are 2 photos.

ASSOCIATION: Odesskiy sel'skokhozyaystvennyy institut (Odessa Agricultural Institute)

1. Agriculture--USSR 2. Seeds--Mineral--Impregnation--Theory

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

AUTHORS: Dobrolyubskiy, O. K., Slavvo, A. V. 20-118-5-55/59 TITLE: The Effect Produced by the Cadmium Trace Element Upon Vitis Vinifera (Vozdeystviye mikroelementa kadmiya na vinograd) PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 118, Nr 5, pp. 1040 - 1042 (USSR). - -----ABSTRACT: Among the chemical elements of the sub group Zn, Cd and Hg only Zn is utilized as trace element for the nutrition of organisms. Cd compounds are hardly used at all in plant gro= wing (reference 4), although numerous data are available on its role as trace element in human beings and the animals (reference 5, 6). A comparison of the atomic structure of the 3 mentioned elements is given. With the increasing ordinal number the virulence increases and the percentage content of these elements in the organism drops:  $Zn = 10^{-30}/0$ ,  $Cd = 10^{-40}/0$  and the most poisonous Hg =  $10^{-60}/0$ . Cadmium always accompanies zinc as mineral. However, its content in the soil is by hundreds of times smaller than that of zinc. Cd is contained in black soils in quantities of 2,0.10<sup>-6</sup> to 1,3.10<sup>-50</sup>/0. In this case the rela= Card 1/h

APPROVED FOR RELEASE: 06/12/2000

The Effect Produced by the Cadmium Trace Element Upon Vitis Vinifera

20-118-5-55/59

tion Zn: Cd is on the average loco. Due to the relation Zn: Cd  $\sim 20$ : 1 in the plants (reference 7) the authors assume that the plants do not need cadmium less than zinc, the compounds of which are often absorbed in great quantities from the soil. The authors have examined the influence of Cd<sup>2+</sup> on Vitis vinifera using the hitherto employed methods (reference 8). The soil was southern black soil, weakly alkaline (pH 7,2 - 7,3) in which the quantity of the assimilable Cd<sup>2+</sup> forms is very little. The grape was sprayed with CdSO<sub>1</sub> solution twice: a) at the beginning of full flowering (june 23) and b) when the grapes were of the size of a pea (July 1d). Each plant received 5.10<sup>-3</sup> g and 5.10<sup>-5</sup> g CdSO<sub>4</sub>. Control grapes were sprayed

with the same quantity of water (0,2 1). The results given on table 1 show that the weight of the grapes increases considerab= ly under the influence of Cd<sup>3+</sup> (from 11 to 17°/o) in particular at a quantity of 5.10<sup>3</sup> g per grape. This concentration agrees: with the optimum quantity of ZnSO<sub>1</sub> in the feeding of the grape outside of the roots (references 8,9). The crop of the grapes in both cases increased from 35 hundredweights/ha to 38,8 hundredweights/ha. Moreover, sugar content increased and acidity

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APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

The Effect Produced by the Cadmium Trace Element Upon Vitis Vinifera 20-118-5-55/59

of the grapes was reduced; thus, reapening was accelerated. The possible participation of the Cd - - compounds in extreme= ly important oxidative-reductive processes in organisms and in the fermentative activity has been proved already (references lo, 11). The Cd compounds accelerate, although more weakly than the Zn<sup>2+</sup>-compounds the oxidation process of the sulfohydryl groups to sulfite groups and activate the decolorization of methyle= ne blue by means of several plant dehydrations. According to the character of anions, salt concentration and several other fac= tors the  $Cd^{a_+}$  -compounds may have catalase-(CdSO<sub>1</sub>) or peroxidase activity. It can be seen from table 2 that Cdarreduces oxidiza= bility of the leaf tissue. From the same table it can also be seen that the action of the trace element leads to an increase of the content of ascorbic acid in Vitis vinifera; by three times in the leaves and by 1,8 times in the grapes. The study of the Cd influence on the accumulation of several sugars should be in= tensified, Table 2 shows that the fructose content increases most. The relation: fructose: glucose increased under the in= fluence of Cdat from 0,92 to 0,96 and ),98 which proves the acceleration of the reapening of the grapes.

Card 3/4

APPROVED FOR RELEASE: 06/12/2000

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The Effect Upon Vitis (	~~~
	There are 2 tables, and 11 references, lo of which are Soviet. Odesskiy sel'skokhozyaystvennyy institut (Agricultural Institute, Odessa)
PRESENTED:	October 9, 1957, by A. L. Kursanov, Academician.
SUBMITTED:	June 5, 1957.
177. da <b>:</b>	
Card 4/4	

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-AUTHORS :	Dobrolyubskiy, O. K., Slavvo, A. V. SOV/20-121-2.47/57
TITLE:	The Int luence of the state of
	The Influence of the Zinc Trace Element on the Fermentative Activity of the Grape (Vliyaniye mikroelementa tsinka na fermentativnuyu deyatel'nost' vinograda)
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 2, pp. 370-373 (USSR)
ABSTRACT:	The use of size and
	The use of zinc as trace element represents a very effective acceleration of the ripening of grapes, of the crop, the in- crease of the sugar- and the decrease of the acid content (Ref 1). Earlier the authors found that this is done best by mixture. Such a treatment for four years has increased the of some sorts of grapes by 18 to 57 %. One of the causes ous redox processes in the organism (Refs 3, 4). In the case when the redox tissue activity is changed the
Card 1/3	when the redox tissue activity is changed the irreversibly oxidized tanning matters in the humor do not occur (Ref 5) etc The use of zinc increases the capability of assimila- tion of the plant for various nutrients, it also increases
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CIA-RDP86-00513R000410620004-4

The Influence of the Zinc Trace Element on the Fermentative Activity of the Srape

the fermentative activity. This finally determines the course of the most important processes of the organism. The analyses of the leaves of the Riesling sort from the Odessa area (Table 1) demonstrate the influence of the trace element. It was used twice in a quantity of 0,005 g  $2nSO_4$  per grape in combination with the Bordeaux mixture: a) during efflorescence, b) when the grapes were about the size of peas. From table 1 may clearly be seen that the oxidizability and the iodine reducing capability of the tissue increase by this treatment. The changes mentioned above are directly connected with the fermentative activity of the organism (Ref 6). In the grape exposed to the effect of very large amounts of copper in the Bordeaux mixture the activity of the ascorbic oxidase and polyphenol oxidase can be considerably modified as these two ferments contain copper (Ref 8). For the reason of comparison leaves were investigated which had been sprayed with

Bordeaux mixture only and with zinc +  $CuSO_4$ . From table 1 a may be seen that the activity of the ascorbic oxidase in spite of the fluctuations decreases towards the end of the vegeta-

Card 2/3

APPROVED FOR RELEASE: 06/12/2000

: 06/12/2000 CIA-RDP86-00513R000410620004-4"

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CIA-RDP86-00513R000410620004-4

The Influence of the Zinc Trace Element on the Fermentative Activity of the<br/>GrapeSOV/20-121-2-47/53<br/>tion. Zinc, however, maintained this activity at a high level.<br/>The effect of the polyphenol oxidase was about similar (Fig<br/>which are Soviet.ASSOCIATION:Odesskiy sel'skokhozyaystvennyy institut (Odessa Agricultural<br/>Institute)PRESENTED:April 1, 1958, by A. L. Kursanov, Member, Academy of Sciences,<br/>USSRSUBMITTED:March 7, 1958

Card 3/3

APPROVED FOR RELEASE: 06/12/2000



CIA-RDP86-00513R000410620004-4

DOBROLYUBSKIY. O.K.

Changes in certain biochemical processes of grapes due to fertilization with the trace element cadmium. Nauch. dokl. vys. shkoly; biol. nauki (MIRA 12:12)

1.Rekomendovana kafedroy neorganicheskoy i analiticheskoy khimii Odesskogo sel'skokhozyaystvennogo instituta. (Grapes--Fertilizers and manures) (Plants, Effect of cadmium on)

APPROVED FOR RELEASE: 06/12/2000

DOBROLYUBSKIY, O.K. TOTA COME

> Valuable book on trace elements ("Trace elements in agriculture" by M.IA. Shkol'nik, N.A. Makarova. Reviewed by O.K. Dobroliubskii). Nauch. dokl. vys. shkoly; biol. nauki no.4:205-207 '59. (MIRA 12:12)

(Trace elements) (Fertilizers and manures)
DOBROLYUBSKIY, O.K.

Effect of some little-studied trace elements on plants. Fiziol. rast. 6 no.5:550-559 8-0 '59. (MIRA 13:2)

1. Odessa Agricultural Institute. (Plants--Nutrition) (Trace elements)

30(1)	SOV/25-59-9-10/49
AUTHOR :	Dobrolyubskiy, O.K., Candidate of Chemical Sciences
TITLE:	Miraculous Milligrams
PERIODICAL:	Nauka i zhizn', 1959, Nr 9, pp 30-32 (USSR)
	The author writes about the effect of chemical sub- stances on the growth and development of animal and vegetable organisms. It has been proven that a slight change in the chemical composition of nutritious sub- stances (by several milligrams) can give appreciable results. Of the 102 elements of the periodical table, for the processes of active life, some are necessary in relatively large quantities (macroelements), and the others in very small doses. These are the micro- elements copper, zinc, manganese, cobalt, iodine, ar- senic, etc. Up to now, the necessity for dozens of microelements in plant and animal life has been proven. The chemical treatment of seeds before sowing is one of the most important methods for increasing the yield of crops. In experiments carried out by M.Ya. Shkol'nik

#### CIA-RDP86-00513R000410620004-4

Miraculous Milligrams

## SOV/25-59-9-10/49

and N.A. Makarova in the Lodeynopol'skiy rayon, Leningradskaya Oblast', the treatment of seeds with a boric acid solution before sowing increased the yield of summer wheat by 2 to 6 centners per hectare. According to data of the Belorusskiy institut zemledeliya (Belorussian Institute of Agriculture), in experiments carried out by V.F. Deyeva in the kolkhoz imeni Zhdanov, Novogrudskiy rayon, Grodnenskaya Oblast', the treatment of seeds of sugar beets with a solution containing a boric compound increased the yield by 15%, with a manganese compound by 12%, and with a molybdenum compound by 22%. At the same time the sugar content of the roots increased by 0.7 to 0.8%. I.P. Pavlov, K.A. Timiryazev and I.V. Michurin stated that organisms have the highest sensitivity to external effects during the early stages of growth. The author describes the treatment of seeds with microorganisms and stresses the role of microelements in increasing the sprouts' resistance to frost. There are 3 photographs and 1 drawing.

Card 2/2

APPROVED FOR RELEASE: 06/12/2000

DOBROLYUBSKIY, O.K. and the second second

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Effect of fertilizers containing the trace element chromium on biochemical processes in grapes. Biokhimiia 24 no.4:625-630 J1-Ag '59. (MIRA 12:11)

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1. Odesskiy sel'skokhozyaystvennyy institut. (GRAPES--FERTILIZERS AND MANURES) (PLANTS, RFFECT OF CHROMIUM ON)

DOBROLYUBSKIY, O.K., kand. khim. nauk •-----

> Wonder-working milligrams. Nauka i zhizn' 26 no.9:30-32 S '59. (MIRA 13:1) (Field crops--Fertilizers and manures) .

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620004-4

AUTHOR:	Dobrolyubskiy, 0.K.
TITLE :	All-Union Conference on Microelements (Vsesoyuznoye soveshcha-
PERIODICAL:	Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2, PP 469-472 (USSR)
ABSTRACT:	The Third All-Union Conference on microelements took place in Baku in April 1958. It was convened by the USSR Academy of Sciences and the Academy of Sciences of the Azerbaydzhan SSR. It was attended by more than 70 scientific research institu- tions. The President of the Latvian Academy of Sciences and
	and the action of microelements on plants. The conditions microelements in the soil in forms accessible for plants is in- G.A. Aliyev, A.N. Gyul Museur, D. Walling, N.P. Shargin, A.I. Makarova, R.S. Osokina, A.A. Alekseyev, M.S. Dzhunko
Card 1/4	Ya.V. Peyve, N.N. Ivanova, M.V. Katalymov, S.I. Ryabova, V.A. Chernov. Ya.V. Peyve demonstrated methods for the quanti- tative analysis of microelements in the soil. The efficiency of the microelements of manganese, boron, copper, molybdenum,

CIA-RDP86-00513R000410620004-4

All-Union Conference on Microelements

SOV/80-32-2-56/56

cobalt, zinc, nickel, aluminum, vanadium, and chromium in difforent agricultural crops is investigated by P.A. Vlasyuk, G.A. Aliyev, O.K. Kedrov-Zikhman, M.Ya. Shkol'nik, M.G. Abutalybov, D.M. Guseynov, A.V. Peterburgskiy, Ye.I. Ratner, S.S. Abayeva, V.V. Yakovleva, A.P. Shcherbakov, O.K. Dobrolyubskiy. M.V. Katalymov presented a paper on the technological and agrochemical investigation of boron fertilizer carried out in the Institute of Fertilizers and Insectofungicides. The use of fritts was dealt with in the papers presented by Ya.V. Peyve, R.S. Rin'ke, P.A. Vlasyuk, M.S. Darmenko, A.P. Shcherbakov, T.I. Kurakhtanova, N.I. Baglykov. M.Ya. Shkol'nik from the Botanical Institute of the USSR Academy of Sciences imeni V.L. Komarov presented a paper on the physiological-biochemical investigation of microlements. S.M. Manskaya and T.V. Drozdova from the Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy made a communication on the role of natural organic compounds in concentrating microelements. L.K. Ostrovskaya showed that the need of plants for copper fertilizers increases with the rise of the level of nitrogen compounds. P.A. Vlasyuk and Z.M. Klimovitskaya demonstrated that a deficiency of boron compounds is connected with the destruction of the oxidation-

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APPROVED FOR RELEASE: 06/12/2000

All-Union Conference on Microelements

SOV/80-32-2-56/56

reduction processes. The importance of chelate compounds is investigated by M.Ya. Shkol'nik and Ya.V. Peyve. Ya.V. Peyve, N.N. Ivanova, and Yu.N. Dobritskaya communicated methods for the determination of molybdenum in soils and plants, M.V. Katalymov and S.I. Ryabova for the determination of mobile boron, A.N. Gyul' akhmedov for the fast determination of manganese, copper and cobalt in carbonate soils. L.Ya. Levanidov recommended to classify the microslements with variable valence as a separate group. A.P. Shcherbakov demonstrated the phenomena of physiological antagonism, synergism and additivity. O.K. Dobrolyubskiy connected the role of chromium, nickel, cobalt, cadmium and mercury with their position in the periodic system. According to the paper presented by V.V. Koval'skiy there are special areas on the surface of the earth where the plants react in a characteristic way on an excess or a deficiency of microelements. The study of these biogeochemical provinces has been developed by V.I. Vernadskiy and A.P. Vinogradov. The influence of microelements on domestic animals was demonstrated by Ya.M. Berzin', N.I. Zaderiy, F.A. Petrov. The biochemical processes in the animal organism caused by microelements were studied by F.Ya. Berenshteyn, A.D. Gololobov, and Ya.A. Babin. The influence

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APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

All-Union Conference on Microelements

SOV/80-32-2-56-56

of microelements on the human organism was shown by A.O.Voynar. The role of microelements in medicine during various diseases was dealt with by V.A.Leonov, V.M.Shostkov, Ye.N.Ivanova, Ye.V.Sabadash, M.G.Mirzakarimov, A.I.Venchikov, R.G.Kayran, and others.

Card 4/4

USCOMM-DC-60,880

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620004-4

C DOBROLIUBSKIY, O.K. N. "Foliar feeding of plants"; a collection of translations from foreign periodical literature. Reviewed by O.K. Dobroliubskii. Biul. MOIP. Otd. biol. 64 no. 5: 168-171 8-0 159. (MIRA 13:6) (PLANTS--ASSIMILATION) (PERTILIZERS AND MANURES) A Part Barrow ....

DOBROLYUBSKIY, O.K.; FEDORENKO, I.V.

Mfect of the trace element zonc on its concentration in grapes. Nauch.dokl.vys.shkoly; biol.nauki no.2:158-161 '60. (MIRA 13:4)

1. Rekomendovana kafedroy neorganicheskoy i analiticheskoy khimii Odesskogo sel'skoknozyaystvennogo instituta. (GRAPES--FERTILIZERS AND MANURES) (PLANTS, EFFECT OF ZINC ON)

#### DOBROLYUBSKIY, O.K.; ZHIVITSKAYA, L.I.

Cobalt content of grapes as related to the utilization conditions of the trace element. Nauch.dokl.vys.shkoly: biol.nauki no.4:186-189 .60. (MIRA 13:11)

1. Rekomendovana kafedroy neorganicheskoy i analiticheskoy khimii Odesskogo sel'skokhozyaystvennogo instituta. (GRAPES--FERTILIZERS AND MANURES) (PLANTS, EFFECT OF COBALT ON)

CIA-RDP86-00513R000410620004-4

DOBROLYUBSKIY, O.K.; RYZHA, V.K.

Rffect of the trace element manganese on some biochemical processes in grapes, Biokhim, vin, no.6:171-195 '60, (MIRA 13:10)

1. Odesskiy ml'skokhozyaystvennyy institut. (Grapes--Fertilizers and manures) (Plants, Effect of manganese on)

#### CIA-RDP86-00513R000410620004-4



APPROVED FOR RELEASE: 06/12/2000

DOBROLYUBSKIY, O.K.; SLAVVO, A.V.

Effect of trace elements on the accumulation of sugars in berries of the grapevine. Biokhim. vin. no.6:196-222 '60. (MIRA 13:10)

1. Odesskiy sel'skokhozyaystvennyy institut. (Grapes -- Fertilizers and manures) (Trace elements) (Sugars)

## DOBROLYUBSKIY, O.K.

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Role of the trace element sinc in biochemical processes taking place in grapes, Biokhim.pl.i ovoshch. no.6:228-251 161. (MIRA 14:6)

1. Odesskiy sel'szokhozyaystvennyy institut. (Grapes) (Plants, Effect of zinc on)

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DOBROLYUBSKIY, O.K.; SLAVVO, A.V. [deceased]

Effect of the trace element nickel on some physiological and bicchemical properties of grapes. Fiziol.rast. 8 no.3:355-358 \$61. (MIRA 14:5)

1. Odesskiy sel'skokhozyaystvennyy institut. (Plants, Effect of nickel on) (Grapes-Fertilizers and manures)

DOBROLYUBSKIY, O.K.; RYZHA, V.K.

Effect of manganese trace element fertilizers on biochemical processes in grapes. Fiziol. rast. 9 no.1:53-59 '62. (MIRA 15:3)

1. Odessa Agricultural Institute. (Grapes--Fertilizers and manures) (Manganese--Physiological effect) 

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DOBROLYUBSKIY, O.K.

Participation of scandium in oxidation-reduction processes in plants. Dokl. AN SSSR 144 no.5:1174-1177 Je '62. (MIRA 15:6)

1. Odesskiy sel'skokhozyaystvennyy institut. Predstavleno akademikom A.L.Kursanovym. (BOTANY --- PHYSIOLOGY) (OXIDATION-REDUCTION REACTION)

(SCANDIUM)

DOBROLYUESKIY, Oleg Konstantinovich, kand, khim. nauk; ANTONYUK, L., red.; MIKHAYLOVSKAYA, N., tekhn. red.

[Wonderful milligrams]Chudesnye milligrammy. Moskva, Izd-vo "Molodaia gvardiia," 1962. 142 p. (MIRA 16:3) (Trace elements)

DOBROLYUBSKIY, O.K. Managing - parameters and Effect of the trace element vanadium on grapes. Fiziol. rast. 10 no.3:319-324 My-Je '63. (MIRA 16:6) 1. Odessa Agricultural Institute. (Plants, Effect of vanadium on) (Grapes)

#### DOBROLYUBSKIY, O.K.

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Effect of the microelement tungsten on plant organisms. Nauch. dokl. vys. shkoly; biol. nauki no.1:142-145 '64. (MIRA 17:4)

1. Rekomendovana kafedroy neorganicheskoy i analiticheskoy khimii Odesskogo sel'skokhozyaystvennogo instituta.



"APPROVED FOR RELEASE: 06/12/2000

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APPROVED FOR RELEASE: 06/12/2000

DOBROMILSKAYA, I. M.

2.2

Dolgopolsky, J. M., <u>Dobromilskaya, I. M.</u>, and Bokl, S. U. - "Investigation of the Acetylene Tetramer". (p. 1115)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1947, Vol. 17, No. 6

J.



"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

The Synthesis of Ethyl- and 2-Propylbutadiene-1,3

SOV/79-28-7-14/64

According to Kaufmann (Kaufman) by titration with bromine the authors determined that these compounds exhibit an unsaturated character. To prove that the alkyl butadienes have a diene structure they were condensed with maleic acid anhydride in benzene solution. The melting points of the products obtained from it are also shown in the table. There are 1 table and 9 references, 3 of which are Soviet.

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SUBMITTED: June 13, 1957

> 1. Butadienes--Synthesis 2. Condensation reactions

> > .....

Card 2/2

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TEN SERVI

DOLGOPOL'SKIY, I.M.; DOBROMIL'SKAYA, I.H.; BYSOV, B.A. Synthesis of fluoreprene over a solid catalyst. Zhur. prikl. khim. 31 no.10:1534-1541 0 158. (MIRA 12:1) 1. Ysesoyuznyy nauchno-issledovatel/ skiy institut sinteticheskoge kauchuka imeni S.V. Lebedeva. (Fluoroprene)

DOLGOPOL'SKIY, I.I.; DOHROMIL'SKAYA, I.M.; BYZOV, B.A.

Hydrofluorination of vinylacetylene with a suspended catalyst. Zhur.prikl.khim. 31 no.11:1716-1722 N '58. (MIRA 12 (Hydrofluoric acid) (Butenyne) (Fluoroprene) (MIRA 12:2)

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"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620004-4

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	SOV/80-59-1-31/44
AUTHORS:	Dolgopol'skiy, I.M., Dobromil'skaya, I.M. and Byzov, B.A.
TITLE:	Chemical Transformations of Mercury Salts and Their Role in the Hydrofluorination Reaction of Vinylacetylene (Khimicheskiye prevrashcheniya soley rtuti i ikh rol' v reaktsii gidroftori- rovaniya vinilatsetilena) Third Communication (Soobshcheniye III)
PERIODICAL:	Zhurnal prikladnoy khimii, 1959, Nr 1, pp 194-201 (USSR)
ABSTRACT:	The authors investigated the composition of the catalytic mix- ture; the character of its changes in the hydrofluorination process of vinylacetylene; the mechanism of this reaction, and the formation of resins taking place during this process. The effect of various factors and conditions of experiments on the run of this process was also investigated and the results are presented in the tabular and graphical forms. The main re- sults are as follows: 1. the change in the content of mercury and its salts at the continuous operation of the catalyzer is shown; 2. the possibility of a considerable lengthening of continuous operation with the maintenance of the constant ac- tivity of the catalytic mixture is demonstrated, which is at- tained by means of the periodic renewal of the catalyzer com-
Card 1/2	position; 3. the possible mechanism of the hydrofluorination reaction and of the several side reactions occurring during

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620004-4

SOV/80-59-1-31/44

Chemical Transformations of Mercury Salts and Their Role in the Hydrofluorination Reaction of Vinylacetylene

> the synthesis of fluoprene out of vinylacetylene is considered. There are 3 graphs, 6 tables and 4 references, 3 of which are Soviet and 1 American.

ASCOCIATION: October 4, 1957

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4

DOBROMIL'SKIY, V.

Cities must be well supplied with potatoes and vegetables. Sov. torg. no.5:15-18 My '59. (41RA 12:7) (Produce trade)

DOBROMIL'SKIY, Vladimir Yefimovich; KIRAKOZOVA, N.Sh., red.; EL'KINA, E.M., tekhn. red. [Price calculations for potatoes, vegetables, and fruit] Raschety za kartofel', ovoshchi i plody. Moskva, Gos.izd-vo torg.lit-ry, 1961. 133 p. (MIRA 14:12)

1961. 133 p.

(Agricultural prices)

APPROVED FOR RELEASE: 06/12/2000

#### CIA-RDP86-00513R000410620004-4

Mach. + Elec. Enginer

## P.T.A. DOBROMIESKI, W.

#### 629.123.2

thobromicabl. W. Genmetrical Similarity in Ship Desian. "halobichstwo geometryczne w pierwszym przybliżeniu projektowania okrętów", Technika Morza i Wybrzeża, No. 8-9, 1930, pp.

An attempt to extend the range of applicability of geometrical 224 231, 3 figs. similarly to the problems erising in the determination of the main dimensions and displacement of merchant ships at a given speed and dead weight. By expressing each of the weight groups of the ship as a variable function  $\lambda$  (of the length scale of the parent ship, and the ship designed), it is possible to arrive at an ,equation of weights", which, when solved, gives the scale for converting all dimensions of the parent ship to the corresponding dimensions of the ship designed. A notable feature of this method is the speed with which it is possible to arrive at the first approximation applying to the ship which is being designed, that is: main dimensions, geometrical and hydrostatis features of its shape, displacement, and individual weight groups, as well as hydrodynamic features, these latter wi hin a degree of accuracy equal to that of tosts carried out with the model

APPROVED FOR RELEASE: 06/12/2000

#### CIA-RDP86-00513R000410620004-4

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# P.T.A. DOBROMIRSEL, W

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Mach + Elec. Eng

638 Dobromirski W., Wiśniewski J. Computation of Righting-Arm Curves Jobromirski W., Wiśniewski J. Computation of Righting-Arm Curves for the Transverse Stability of Ships by Using Longitudinat Hull Sections.

"Obliczenie krzywej ramion momentu stateczności poprzezznej statków przy zastosowaniu wzdłużnicowych przekrojów kadłuba" Tedinika Morza i Wybrzen. No. 11. 1950, pp. 316.–324, 10 fizs. 4 taba.

This article, while substantiating the theoretical methods drawn up by the Chair of Ship Designing of the Gdaúsk Foldechnic on the

hasts of principles quoted by Exser (1963), is at the same time an attempt at systematization of the definitions and terms used in calculations of geometrical characteristics of ships' hulls. The parts dealing with the properties of the integral curves of hongitudinal sections are intended to determine the anticipated course of these rurves in a manner making it possible to obtain a degree of accuracy sufficient for computation purposes of diagrams of the curves, with a minimum number of technis planumeter, or integrator measurings.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000410620004-4"

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### CIA-RDP86-00513R000410620004-4

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NOTIFICAL DRUGS

### 1433

### 629.12.011.073

Dobromirski W., Winlewski J. Computation of Righting Arm Curves of the Transverse Moment of Stability of Ships by Means of Longi. tudinal Huli Sections, Part 2.

"Obliczenie krzywej ramion momentu stateczności poprzecznej statków przy zastosowaniu wzdłużnicowych przekrojów kadłubu" Technika Morsa & Wybraela. No. 1, 1951, pp. 19-34, 9 figs.

Description of functions necessary for the purpose of compating righting arm curves of the transverse michent of stability of shipe by means of the method outlined. The computations are taken to a point at which the results arrived at will make possible, when applying the hypotheses given in sections 1 and 2 of Part 1 of this publication, a graphic transposition of the delineation of functions

z(V, y) and y(V, y) - being coordinates of the centre of buoyancy in an axial system. The planimeter as an instrument for carrying out the requisite approximate integrations. The use of integrators. Comparison of the method proposed with methods hitherto in use, together with a discussion on the usefulness of application of this new method.

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It is clear from clinical observations that dis- thurbance of histamine metabolism and dysfunction of the vegetative system are very marked in la- ryngeal and pulmonary tuberculosis. This is the reason citral is used as an antihistaminic, chil- chil with the system are very marked in la- reason citral is used as an antihistaminic, chil- chil with the system are very marked in la- the set of the system are very marked in la- reason citral is used as an antihistaminic, chil- chil with the system are very marked in la- the set of the system are very marked in la- son the system and analysis of the system of the system and of the system supplementary, not an independent method of treat	Theoretical Basis for the Use of Outral in outration for Laryngeal and Fulmonary Tuberculosis," Prof Inst imeni Gel'mgol'ts, 3 pp "West Oto-rino-laringol" No 6 It is clear from clinical observations that dis- turbance of histamine metabolism and dysfunction of the vegetative system are very marked in la- rangeal and pulmonary tuberculosis. This is the reason citral is used as an antihistaminic, cult- the second function of the system is an antihistaminic, cult- the second pulmonary tuberculosis. This is the reason citral is used as an antihistaminic, cult- the second pulmonary tuberculosis. This is the reason citral is used as an antihistaminic, cult- the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the reason citral is used as an antihistaminic, cult- the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second citral is used as an antihistaminic, cult to be the second pulmonary tuberculosis. This is the second citral is used as an antihistaminic, cult to be the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. The second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. This is the second pulmonary tuberculosis. The second pulmonary tuberculosis. This is the second pulmonary tuber		8.1.
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