

MICU, D., dr.

Lymph-node punch biopsy and its clinical value. Med. intern. 14 no.10:  
1161-1172 0 '62.

(LYMPH NODES) (BIOPSY) (LYMPIADENITIS)  
(LYMPHATIC METASTASIS) (LYMPHOMA)

MICU, D., dr.; RUNCAN, V., dr.; MIHAILESCU, Eugenia, dr.; MAXIMILIAN, Stefania, dr.; MIRON, C., dr.; MOLNER, C., dr.

Blood and bone marrow changes in chronic hepatitis treated with massive doses of vitamin B 12. Med. intern. 14 no.4:461-468 Ap '62.

1. Lucrare efectuata in Clinica Institutului de medicina interna al Academiei R.P.R. si a M.S.P.S. (director: acad. N. Gh. Lupu).  
(HEPATITIS) (VITAMIN B 12) (BLOOD) (BONE MARROW)

MICU, D.; ZAMFIRESCU-GHEORGHIU, Marcela; MAXIMILIAN, Stefania; MIHAILESCU,  
Eugenia

Blood catalase determination in radiotherapy of leukemias. Rev. sci.  
med. 7 no.1/2:63-67 '62.

(CATALASE) (LEUKEMIA) (RADIOTHERAPY)

MICU, D.

Erythroenzymopenic hemolytic anemia. Stud. cercet. med. intern. 3  
no.6:709-718 '62.

(ANEMIA, HEMOLYTIC) (ERYTHROCYTES)  
(GLUCOSEPHOSPHATE DEHYDROGENASE) (GLUTATHIONE)  
(OXIDOREDUCTASES) (ENZYME TESTS)

MICU, D.; VELICAN, C.; GROZEA, P.; MIHAILESCU, Eugenia; MAXIMILLIAN, Stefania;  
MATEESCU, Despina

Contributions to the cytological and enzymocytoschemical study of  
normal and pathological lymph nodes. VI. Lymph nodes in leucosis.  
Stud. cercet. med. intern. 3 no.3:357-366 '62.

(LYMPH NODES chemistry) (LEUKEMIA chemistry)  
(CYTODIAGNOSIS)

MICU, D.; MAXIMILIAN, Stefania; BREMIA, Rodica; PILAT, L.

Research on the hematological changes in personnel in radiological services. Stud. cercet. med. intern. 3 no.2:225-231 '62.

(RADIOLOGY) (BLOOD radiation effects)  
(BONE MARROW radiation effects) (RADJATION INJURY)

MIGU, D., dr.; MAXIMILIAN, Stefania, dr.; SAFIRESCU, Eugenia

New methods for investigation of megakaryopoiesis. Med. intern. 13  
no.10:1445-1452 O '61.

1. Lucrare efectuata in Institutul de medicina interna al Acad. R.P.R.  
si M.S.P.S. director: Acad. N. Gh. Lupu.

(HEMATOPOIESIS) (MEGAKARYOCYTES)

MICU, D., dr.

Considerations on a case of an acute leukemic state caused by irradiation. Med. intern., Bucur 13 no.1:157-160 Ja '61.

(LEUKEMIA case reports)  
(RADIATION INJURY case reports)

MICU, D.; VELICAN, C.; GROZEA, P.; MIHAILESCU, Eugenia; MAXIMILLIAN, Stefania;  
MATEESCU, Despina

Contribution to the cytological and enzymo-cytochemical study of  
normal and pathological lymph nodes. V. Lymph nodes in malignant  
lymphogranuloma. Stud. cercet. med. intern. 2 no.6:n.p. '61.

(HODGKIN'S DISEASE pathology) (LYMPH NODES chemistry)  
(ENZYMEs chemistry) (CYTOLOGY)

MICU, D.; VELICAN, C.; GROZEA, P.; MAXIMILIAN, Stefania; MIHAILESCU, Eugenia;  
MATEESCU, Despina

Contribution to the cytological and enzymocytochemical study of normal  
and pathological lymph nodes. IV. Lymph nodes in reticulosarcomas and  
lymphosarcomas. Stud. cercet. med. intern. 2 no.5:681-692 '61.

(SARCOMA, RETICULUM CELL chemistry)  
(LYMPHOSARCOMA chemistry)  
(LYMPH NODES chemistry)

MICU, D.; GROZEA, P.; MAXIMILLIAN, Stefania; SAFIRESCU, Eugenia; GOCIU,  
Mariana; MATEESCU, Despina

Contribution to the cytological and enzymological study of normal  
and pathological lymph nodes. III. Lymph nodes in chromic inflammation.  
Stud. cercet. med. intern. 2 no.4:527-537 '61.

(LYMPH NODES pathology) (ENZYMES chemistry)  
(INFLAMMATION pathology)

VELICAN, C.; MICU, D.; GROZEA, P.; GOCIU, Mariana

Histochemistry of the glucido-protein complexes in malignant blood diseases. II. Research on reticulos, reticulosarcoma and lymphosarcoma. Stud. cercet. med. intern. 2 no.4:519-525 '61.  
(LYMPHOMA chemistry) (SARCOMA, RETICULUM CELL chemistry)  
(LYMPHOSARCOMA chemistry) (MUCOPOLYSACCHARIDES chemistry)  
(MAST CELLS chemistry) (LYMPH NODES chemistry)  
(GLYCOPROTEINS chemistry)

MICU, D.; GROZEA, P.; SAFIRESCU, Eugenia; MAXIMILLIAN, Stefania;  
GOCIU, Mariana; MATEESCU, Despina

Contribution to the cytological and enzymo-chemical study of the  
normal and pathological lymph node. The lymph node in acute  
inflammation. Stud. cercet. med. intern. 2 no.3:351-359 '61.  
(LYMPH NODES pathology) (ENZYMES chemistry)  
(INFLAMMATION pathology)

MICU, D.; GROZEA, P.; MAXIMILLIAN, Stefania; SAFIRESCU, Eugenia;  
GOCIU, Mariana; MATEESCU, Despina

Contribution to the cytological and enzymo-cytochemical study of  
the normal and pathological lymph node. I. The normal lymph node.  
Stud. cercet. med. intern. 2 no.2:219-226 '61.

(LYMPH NODES chemistry) (ENZYMEs chemistry)  
(LIPIDS chemistry) (GLYCOGEN chemistry) (NUCLEIC ACIDS chemistry)

MICU, D.; CALALB, A.; SAFIRESCU, Eugenia; MAXIMILLIAN, Stefania

Aspects of the bone marrow and blood before and after splenectomy  
in some systemic diseases. Stud. cercet. med. intern. 2 no.1:69-76  
'61.

(SPLEEN surgery) (HEMATOPOIETIC SYSTEM diseases)  
(HYPERSPLENISM complications)

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LUPU,N.Gh.,Academician; MICU,D.; CUCU,N.; MAXIMILLIAN,Stefania

Clinical contributions to the study of idiopathic chronic  
panhemocytopenia. Probl. ter., Bucur. 10 no.4:21-41 '60.  
(ANEMIA,APIASTIC)

MICU,D.; MAXIMILIAN,Stefania

Coagulation time of blood,citrated, spontaneously sedimented  
and recalcified with calcium chloride in powder. Probl. ter.,  
Bucur. 10 no.2:115-119 '59.

(BLOOD COAGULATION chemistry)  
(CITRATES pharmacology)  
(CALCIUM pharmacology)

MICU,D.; MAXIMILIAN,Stefan; GEORGESCU,St.; SAFIRESCU,Eugenia

On disorders of thromboplastin formation in hyperthrombocytopenia.  
Probl. ter.,Bucur. 10 no.2:95-106 '59.  
(BLOOD PLATELETS)  
(THROMBOPLASTIN)

MICU, D.; ZAMFIRESCU-GHEROGHIU, M.; GRAMATOPOL, D.; MAXIMILLIAN, ST.

Value of serum catalase test in control of x-ray therapy. Bul. stiint.,  
sect. med. 9 no.1:51-69 1957.

(RADIOTHERAPY

control with serum catalase tests)

(CATALASE, in blood

determ. in control of x-ray ther.)

MICU, Dumitru  
DIMITRIU, Ofelia; MICU, Dumitru

Hemocultures with L forms. Stud. cercet. inframicrobiol., Bucur. 8 no.2: 289-296 1957.

1. Comunicare prezentata la Sectia de stinte medicale a Academiei R.P.R. in sedinta din 14 iulie 1955.

(BACTERIA

L forms in hemocultures of patients of febrile dis. previously treated with antibiotics)

(ANTIBIOTICS, eff.

prod. of l forms in hemocultures of patients of febrile diseases treated with antibiotics )

MICU, D.

LAGNOV, S.; MICU, D.; SIMIONOVICI, B.

Hematological studies in pulmonary sclero-emphysema. Probl. ter., Bucur.  
8:61-71 1957.

(EMPHYSEMA, PULMONARY, blood in  
protein disord., erythropoiesis & platelet count & morphol.,  
in sclero-emphysema)

(BLOOD PROTEINS, in various dis.  
pulm. sclero-emphysema)

(HEMOPOIESIS  
disord. of erythropoiesis in pulm. sclero-emphysema)

(BLOOD PLATELETS, in various diseases  
count & morphol. in pulm. emphysema)

RUMANIA/Human and Animal Physiology (Normal and Pathological). T-3  
Blood. Blood Groups.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74662

Author : Dumitrescu, Mircea; Dimitriu, Ofelia; Micu, Dumitru;  
Dumitrescu, Sanda

Inst :

Title : Investigation of Immunoleukopenias.

Orig Pub : Comun, Acad. RPR, 1957, 7, No 2, 291-296

Abstract : The content of leukocytic antibodies (A) during leukopenias of different nature was observed in 20% of cases. Pathogenesis of these A in many cases is connected with the presence of paraproteids. Seemingly, by influencing the leukopoiesis, these A cause decrease of the quantity of leukocytes. A correlation was not always found between the titer of leukocytic A and the degree of leukopenia. In a series of cases, blocked A were also found. -- L.N. Dayneko.

Card 1/1

RUMANIA/Human and Animal Physiology (Normal and Pathological).  
Blood. Blood Groups. T-3

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74663

thrombocytes. Leukocytic A were also found present simultaneously with thrombocytic A. -- L.N. Dayneko.

RUMANIA/Human and Animal Physiology (Normal and Pathological).  
Blood. Blood Groups.

T-3

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74663  
Author : Dimitriu, Ofelia; Fischer, P.S.; Micu, D.; Dumitrescu, Sanda.  
Inst : -  
Title : On the Investigation of Immunothrombopenia.  
Orig Pub : Comun. Acad. RPR, 1957, 7, No 2, 285-290.  
  
Abstract : In 4 cases out of 30, during cirrhosis of the liver and other illnesses, samples of thrombocytic antibodies (A) were positive. In 2 cases of pathogenesis, A was connected with the presence of paraproteids. Seemingly, these A, by influencing the thrombopoiesis, caused a decrease of the quantity of thrombocytes. A correlation was not found between the titer of A, infections of the bone marrow, and thrombopenia. In some patients A were found blocking

Card 1/2

MICU, D.; SIMIONOVICI, B.; FISCHER, P.S.; MELZER, V.

Hematological investigations in cardiac insufficiency. Probl. ter.,  
Bucur. no.7:41-61 1957.

(CONGESTIVE HEART FAILURE, pathology

bone marrow hypoplasia, hypocythemia, erythropoietic  
hypofunct. & other hematol. disord.)

(BONE MARROW, in various dis.

hypoplasia in congestive heart failure)

(HEMOPOIESIS

disord. in congestive heart failure)

RUMANIA/Human and Animal Physiology (Normal and Pathological),  
Blood. Blood Diseases. T-3

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74689

hemorrhagic C, microcytotic anemias developed. Hemorrhagic anemias were observed during DC as a result of sanguineous vomiting and sanguineous stool. In 75% of the cases of C, granulopenia were noted due to retention of the myelopoiesis. The quantity of eosinophil in a majority of cases was normal. Absolute lymphopenia was noted in 70, monocytopenia in 63% of the cases. With DC, impairments in the content of granulocytes is more expressed than with CC. In all cases, thrombopenia was observed, more expressed with serious illnesses, which is explained by the retention of megakaryocytic thrombopoiesis. Impairments in the picture of formed elements of the blood are connected, usually, with serious disorders of metabolism in C of the liver and with an inhibiting influence of the spleen on H. In the case of CC with hypersplenization, splenectomy gave good results. -- A.D. Beloborodova.

Card 2/2

RUMANIA/Human and Animal Physiology - (Normal and Pathological). T-3  
Blood. Blood Diseases.

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74689

Author : Iagnov, S., Fischer, P.S., Kreindler, F., Micu, D.

Inst :  
Title : Investigation of Hematological Impairments During Cyrrhosis  
of the Liver.

Orig Pub : Probl. terap., 1957, 5, 45-64

Abstract : In patients with cyrrhosis (C) of the liver - with compensating (DC; 16) and decompensating (DC; 39) - quantitative and qualitative impairments were found of the red blood cells. The first are connected with decreased hemopoiesis (H), the second, with acute hemorrhagic symptoms. Decreased H was observed with serious C. Signs of anemia with CC sometimes were absent, with DC they were always observed. In 50 patients, macrocytosis was noted, in 5 the surface of the erythrocytes was normal or microcytotic. Due to

Card 1/2

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IAGNOV, S.; FISCHER, S. P.; POPESCU, G. I.; MICU, D.

Study of hematological disorders in epidemic hepatitis. Probl. ter., Bucur. 4:123-172 1956.

1. Institutul de terapeutica al Academiei R.P.R., Sectia de la Spitalul I. C. Frimu.  
(HEPATITIS, INFECTIOUS, blood in  
cell counts, erythrocyte destruction & osmotic resist.,  
hematocrit & disord. of hemopoiesis)  
(BLOOD CELLS  
count in infect. hepatitis)  
(ERYTHROCYTES  
destruction & osmotic resist. in infect. hepatitis)  
(HEMOPOIESIS  
disord. in infect. hepatitis)

Mihai, D.

MIHAI, C.; MICU, D.; TANASESCU, M.; VICIU, E.

Extracellular fluid in hypertensive patients. Probl. card., Bucur.  
2:257-262 1956.

(HYPERTENSION, physiology)

increase & decrease of extracellular fluid in various  
types of patients)

(BODY FLUIDS

extracellular fluid increase & decrease in hypertension)

DUMITRESCU, Mircea; DIMITRIU, Ofelia; FISCHER, P.s.; MICU, Dumitru;  
IAGNOV, S. membru corespondent al Academiei R.P.R.

Study of the correlations of blood, bone marrow and spleen and  
of the therapeutic indications for splenectomy. Bul.stiint.,  
sect.med. 6 no.4:883-936 Oct-Dec '54. (MLRA 8:8)

(HEMPOIETIC SYSTEM, dis.

ther., liver extract with splenectomy, indic.)

(SPLENOMEGALY, surg.

splenectomy, indic)

(LIVER CIRRHOSIS, ther.

liver extracts, with splenectomy, in splenomegalic  
cirrhosis)

(SPLEEN, surg.

excis., in splenomegalic cirrhosis with hemopoietic  
disord. indic.)

DUMITRESCU, Mircea.; DIMITRIU, Ofelia.; ZAMFIRESCU-GHEORGHIU, Marcela.,;  
MICU,Dumitru,; POPESCU, Gr.

Hemolysis. Probl. ter., Bucur. Vol 1:209-224 1954.

(HEMOLYSIS

eff. of erythropoietic insuff., plasma cholesterol & osmotic & colloid-osmotic resist. of erythrocytes)

(ERYTHROCYTES

eff. of insuff. & osmotic & colloid-osmotic resist. on hemolysis)

(CHOLESTEROL, in blood

eff. on hemolysis)

(BLOOD

cholesterol, eff. on hemolysis)

LAGNOV, S.,; DUMITRESCU, Mircea,; DIMITRIUM, Ofelia,; MICU,Dumitru,;  
FISCHER, Puiu, S.

New tests for study of erythropoiesis; their clinical and  
therapeutic value. Probl. ter., Bucur. Vol 1:97-137 1954.

1. Membru corespondent al Academiei R.P.R. (for Iagnov).  
(ERYTHROCYTES  
form, physiol. & new tests)

SAVU, H.; MICU, C.

Contributions to the knowledge of the geology and petrography  
of the central part of the Semenicului Mountains. Dari seama  
sed 49 pt. 1:39-50 '61-'62 [publ. '64].

1. Submitted February 16, 1962.

MICSUK, Laszlo

Agricultural work in the springtime and labor safety. Munka  
14 no.3:10-11 Mr '64.

1. MEDOSZ Titkara.

MICSUK, Laszlo

The state and perspectives of the innovation movement in  
agriculture. Ujít lap 15 no.18:10 25 S '63.

1. MEDOSZ titkara.

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RUSINGER, Stefan; NICULESCU, Ioan; IOAN

Theoretical considerations and experimental tests in the  
hydraulic deep drawing process. Industria usoara 14 nr.  
79-85 F '65.

L. Polytechnic Institute, Timisoara.

SAVII, Gh.; ROSINGER, St.; MICSA, I.

Comparative data on the necessary power for polishing hardened  
hardness steel for the cases of the cooling liquid flowing  
from outside and through the abrasive tool pores. Bul. St  
si Tehn Tim 9 no.1:129-134 Ja-Je '64.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800015-6

HICKEY, ERIC

Slovenska L'upsa. (jg. 1.) Tretiak, J., ed. Slovenske novosti. (Slovenska L'upsa. 1st ed. Illus., map, bibli.)

so: Monthly List of East European Accessions, (EAL), IB, Vol. 4, no. 10, Oct. 1955,  
Uncl.

MICOVSKI, M.

Review of Applied Mycology  
Vol. 33 Mar. 1954

2  
Milev (N.) & MicoVski (M.). Микробиолошко испитување на црвениците во Скопјето. [Microbiological examination of red soils round Skopje] -- *Ann. (Fac. Agron. Silvic.) Agron. Skopje*, 3 (1949-50), pp. 65-82, 1953. [English summary.]

Six samples of cultivated and uncultivated red soil (pH 6.8) from around Skopje, Yugoslavia, were examined by the direct microscopic method, using smears of soil stained with carbol erythrosin for four minutes over a boiling water bath, and the agar plate method [cf. R.A.M., 32, pp. 690, 643]. The media recommended by A. Cunningham (Practical Bacteriology, third edition, London, 1947) was used for plating. The total number of microorganisms detected (in millions per gm. soil) ranged from 248 to 1,470 by the direct method and 2,810 to 42,650 by plating. Bacteria were the most numerous, followed by actinomycetes. Fungi, ranging from 60,000 to 1,630,000 per gm. soil, formed about 1 to 3.8 per cent. of the total red soil microflora investigated.

MICOVIC, V.M.

New standard for atomic weights; abstract. Glas Hem dr 27  
no.9/10:566 '64

1. Faculty of Sciences, University of Belgrade.

MICCOVIC, V.M.; MAMUZIC, R.I.; JEREMIĆ, D.; MIHAJLOVIC, M. Lj.

Reactions with lead tetraacetate. Pt. I. Bul sc nat SANU 32  
no.9:113-125 '63.

I. Chemical Institute of the Faculty of Mathematics and Natural  
Sciences of the University of Belgrade, Belgrade. Submitted  
November 10, 1961.

MICOVIC, V.M.; ROGIC, M.; MIHALOVIC, M. S.J.

Reduction of ketones with lithium aluminum hydride. Pt. I. Bel  
sc mat SANU 32 no. 9:95-101 '63.

1. Chemical Institute of the Faculty of Mathematics and Natural  
Sciences of the University of Belgrade, Belgrade. Submitted  
October 6, 1961.

MICOVIC, Vukic M.; MLADENOVIC, Slobodan; STEFANOVIC, Milutin

Reaction of tropinone with acetylene. Preparation of  $\beta$ -ethyltropane-3-ol. Glas Hem dr 28 no.5/6:285-290 '63.

1. Chemical Institute of the Faculty of Natural Sciences  
and Mathematics, Belgrade. Submitted February 11, 1964.

MICOVIC, Vukic, dr, profesor Univerziteta

Millivoj S. Lozanic, 1878-1963; obituary. Glas Hem dr 28 no.5/6;  
227-236 '63.

MICOVIC, V. M.; STEFANOVIC, V. D.

Studies on the chemical composition of Yugoslav lichens. Glas prir  
mat SANU 245 no.21:45-52 '61.

1. Faculty of Science, Institute of Chemistry, University of Beograd.  
(Yugoslavia--Lichens)

MICOVIC, V.M.; STEFANOVIC, Vladimir D.

Chemical structure of certain Yugoslav lichens. I.  
Glas SANU 12 no.2:187-188 '60 [publ.'62].

1. Dopisnik Srpske akademije nauke i umetnosti, Beograd  
(for Micovic).

V. M. Mićović AND A. Stojiljković

24 hrs. with 5 g. D-glucose in 100 ml. I, the mixt. neutralized with  $K_2CO_3$ , the filtered soln. and the  $Et_2O$  washings neutralized with more  $K_2CO_3$ , the soln. distd., and the oily residue treated with alc. and ligoine gave 0.2 g. cryst. product, recrystd. (ligoine-alc.) to give *dicyclopentylidene-D-glucose*, m. 104°. The corresponding *dicyclohexylidene-D-glucose* and *monocyclohexylidene-D-glucose* (VII) were prepd. according to Hockett, et al. (C.A. 44, 8331b).  $Pb(OAc)_4$  (13.4 g.) refluxed in dry  $C_6H_6$  with stirring while treated dropwise with 8 g. VII in 200 ml. dry  $C_6H_6$ , the mixt. heated 30 min. at 100°, the filtered soln. evapd., and the oily residue triturated with  $H_2O$  yielded 71% *1,2-monocyclohexylidenehexyltrioxylutaraldehyde*, m. 178° (50% alc.); *semicarbazone*, m. 215° (decompn.). I (25 g.), 2 g. D-fructose, and 1 ml. concd.  $H_2SO_4$  stirred 40 hrs. at room temp., the mixt. neutralized and poured into  $H_2O$ , the soln. extd. with  $Et_2O$ , the *dicyclopentylidene-D-fructose* (2 g.) treated with 1.5 g.  $p\text{-MeC}_6H_4SO_3Cl$ , and the product recrystd. (50% alc.) yielded 50% *p-toluenesulfonate*, m. 118°. Similarly 2 g. D-fructose and 10 g. II stirred with concd.  $H_2SO_4$  at room temp. and worked up yielded 02% *dicyclohexylidene-D-fructose*, m. 142° (50% alc.). In the condensation reactions with polyhydroxy compds. I and II behaved similarly to  $Me_2CO$  with production of 5-membered ring compds. II reacted more readily than I in accordance with the I-strain theory and the proposed generalization for the exo and endo double bonds in 5- and 6-membered ring systems (cf. Brown, et al., C.A. 49, 2980b). C. R.

5  
2 May  
2

V. M. Micovic

Distr: /E3d//E2c(j)  
 Condensations of polyhydric alcohols and monosaccharides with cyclopentanone and cyclohexanone. V. M. Micovic and A. Stojiljkovic (Univ. Belgrade, Yugoslavia). *Tetrahedron* 4, 180-90 (1958).—Cyclopentanone (I) and cyclohexanone (II) condense with polyhydric alcs. and monosaccharides to yield di- and tricyclopentylidene and cyclohexylidene derivs. Series of new condensation products were prep'd. and characterized. Glycol (81 g.), 42 g. I, and 4 drops of 40% H<sub>2</sub>SO<sub>4</sub> stirred 10 hrs. on a steam bath, the cooled mixt. extd. with Et<sub>2</sub>O, the dried ext. distd. and the fraction, b. 136-55°, treated with 2 vols. satd. aq. NaHSO<sub>3</sub>, the filtered soln. extd. with Et<sub>2</sub>O, and the product distd. yielded 4 g. cyclopentylidene glycol, b. 153°, n<sub>D</sub><sup>20</sup> 1.4537, d<sub>40</sub> 1.024, MR 33.82. Glycerol (20 g.), 40 g. I, and 8 g. anhyd. Na<sub>2</sub>SO<sub>4</sub> stirred 24 hrs. at room temp. with addn. of 0.4 g. HCl gas, the mixt. neutralized and filtered, the filtrate distd. *in vacuo* in the presence of Ag<sub>2</sub>O, the distillate freed from unchanged I, and the residue distd. yielded 41% cyclopentylidene glycerol (III), b.p. 127-9°. Glycerol (10 g.), 20 g. I, and 3 g. 95% H<sub>2</sub>SO<sub>4</sub> occasionally shaken at room temp. 24 hrs., the mixt. neutralized with PbCO<sub>3</sub>, and the filtered soln. distd. yielded 54% III, b.p. 122-3°, n<sub>D</sub><sup>20</sup> 1.4793, d<sub>40</sub> 1.073, MR 39.30; 3,5-dinitrobenzoate, m. 79°; p-toluenesulfonate (IV), m. 38°. IV (3 g.) and 3.7 g. NaI heated 12 hrs. in Me<sub>2</sub>CO in a sealed tube at 100°, the mixt. filtered and the filtrate evapd., the sirup treated with ligroine to remove IV and with Et<sub>2</sub>O to eliminate NaI, and the residue evapd. gave cyclopentylidene monoiodohydrin, hydrolyzed with 0.5N AcOH to authentic glycerol iodohydrin, m. 48° (CHCl<sub>3</sub>-ligroine). Pentaerythritol (3 g.), 11.6 g. I, and 5 drops concd. H<sub>2</sub>SO<sub>4</sub> stirred 3 days at room temp., the mixt. made alk. with KOH, and the product washed with H<sub>2</sub>O yielded 24% dicyclopentylidene pentaerythritol, m. 152°.

(alc.). Similarly were prep'd. dicyclopentylidene mesoerythritol, m. 64° (60% alc.), and the corresponding dicyclohexylidene pentaerythritol, m. 135° (alc.), and dicyclohexylidene mesoerythritol, m. 95° (alc.), in 40, 47, and 87% yields, resp. Arabitol (1.5 g.), 7 g. I, and 0.25 ml. concd. H<sub>2</sub>SO<sub>4</sub> stirred 1 day at room temp., the neutralized mixt. extd. with Et<sub>2</sub>O, and the H<sub>2</sub>O-washed ext. evapd. gave 0.8 g. dicyclopentylidene-L-arabitol; p-toluenesulfonate, m. 68° (ligroine). Mannitol (0 g.) and 60 ml. I stirred several hrs. with P<sub>2</sub>O<sub>5</sub> and the neutralized mixt. poured into H<sub>2</sub>O gave 4.5 g. tricyclopentylidene-D-mannitol, m. 70° (alc.), [α]<sub>D</sub><sup>25</sup> 11.27° (c 1.35, CHCl<sub>3</sub>). Similarly was prep'd. tricyclopentylidene-D-sorbitol, m. 78° (alc.), [α]<sub>D</sub><sup>25</sup> 7.3° (c 1.09, alc.). I (20 g.), 2 g. L-arabinose, and 15 drops concd. H<sub>2</sub>SO<sub>4</sub> stirred 24 hrs., the filtered soln. neutralized, dild. with H<sub>2</sub>O, and extd. with Et<sub>2</sub>O produced 53% dicyclopentylidene-L-arabinose, m. 02° (60% alc.). Similarly were prep'd. dicyclopentylidene-D-xylose, m. 89° (50% alc.), and dicyclopentylidene-D-mannose (V), m. 116° (40% alc.), [α]<sub>D</sub><sup>25</sup> 8.7° (c 1.04, alc.), in 31 and 44% yields. The corresponding dicyclohexylidene-L-arabinose, m. 86° (70% alc.), dicyclohexylidene-D-xylose, m. 104° (80% alc.), and dicyclohexylidene-D-mannose, m. 122°, were prep'd. analogously in 73, 72, and 52% yields. V (1 g.) in 10 ml. H<sub>2</sub>O contg. 0.18 g. KOH stirred with 0.33 g. KMnO<sub>4</sub>, the mixt. heated 8 hrs. with stirring, the filtered soln. evapd. *in vacuo*, and the salt extd. with Me<sub>2</sub>CO gave K cyclopentylidene-D-mannonoate (VI), m. 235° (decompn.), [α]<sub>D</sub><sup>25</sup> -23.9° (c 2.55, H<sub>2</sub>O). VI in a min. of H<sub>2</sub>O treated with an equiv. amt. of 0.5N H<sub>2</sub>SO<sub>4</sub>, the soln. extd. with Et<sub>2</sub>O, and the ext. evapd. gave dicyclopentylidene-D-mannonic acid lactone, m. 129°, [α]<sub>D</sub><sup>25</sup> 35.98° (c 1.32, CHCl<sub>3</sub>). ZnCl<sub>2</sub> (6 g.), 1 g. P<sub>2</sub>O<sub>5</sub>, and 2 g. 85% H<sub>3</sub>PO<sub>4</sub> stirred

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2

MICOVIC, V. ; MIHAILOVIC, M.

MICOVIC, V. ; MIHAILOVIC, M. Reduction of  $\alpha, \beta$ -epoxy esters with lithium aluminum hydride. p. 299.

Vol. 20, no. 5, 1955

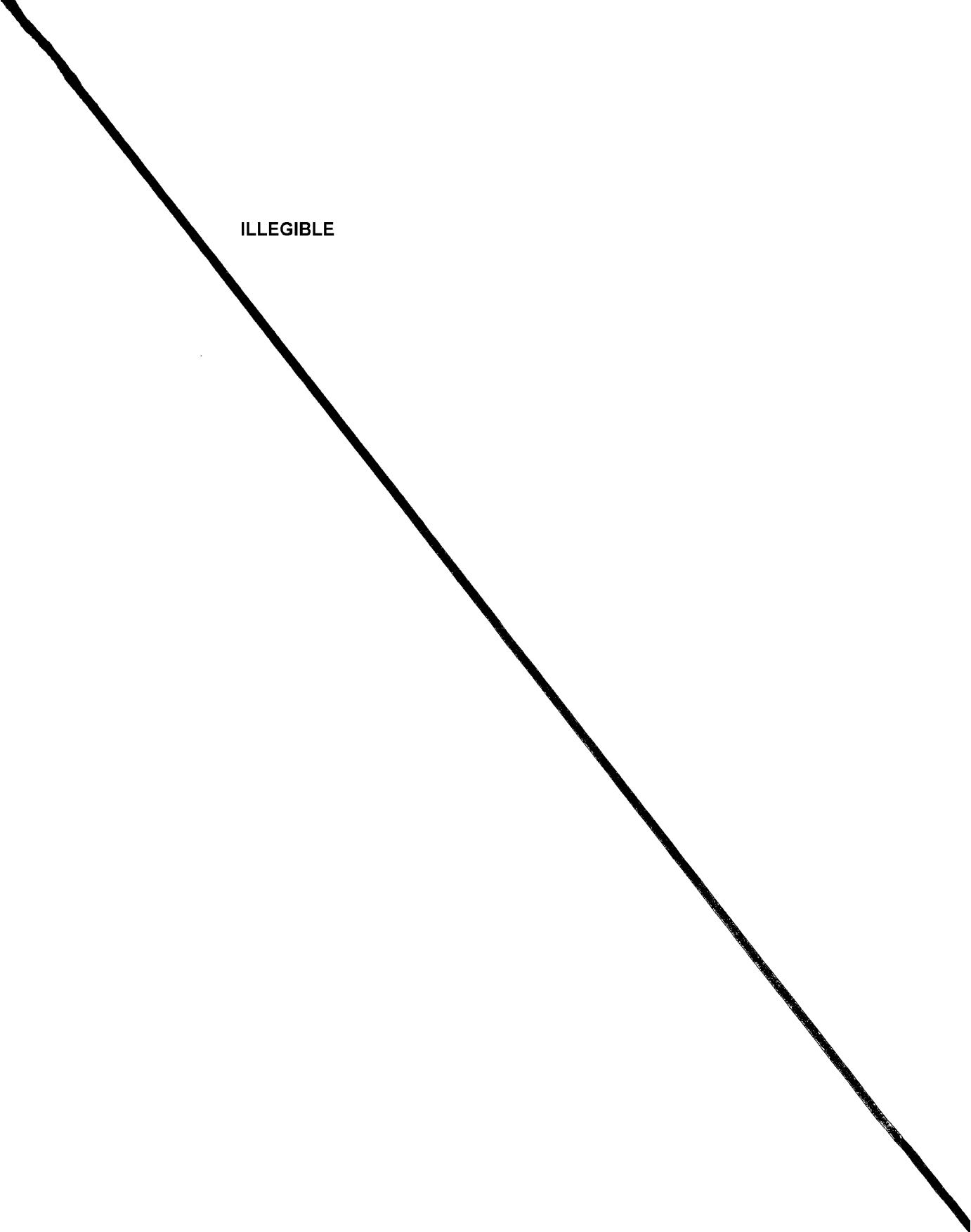
GLASNIK

Beograd, Yugoslavia

So: Eastern European Accession Vol. 5 No. 4 April 1956

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800015-6

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Lithium aluminum hydride in organic chemistry. Redactor Kosta V. Petkovic. Beograd, Naučna knjiga, 1955. 193. p. (Serbian Academy of Sciences. Monographs, v. 237. Section for Natural Sciences and Mathematics, no. 9.) (In English. bibl.)

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SO: Monthly List of East European Acquisitions (ESAL) Ic, Vol. 6, No. 8, Aug 1957. Uncl.

MICCOVIC, Vukic M.

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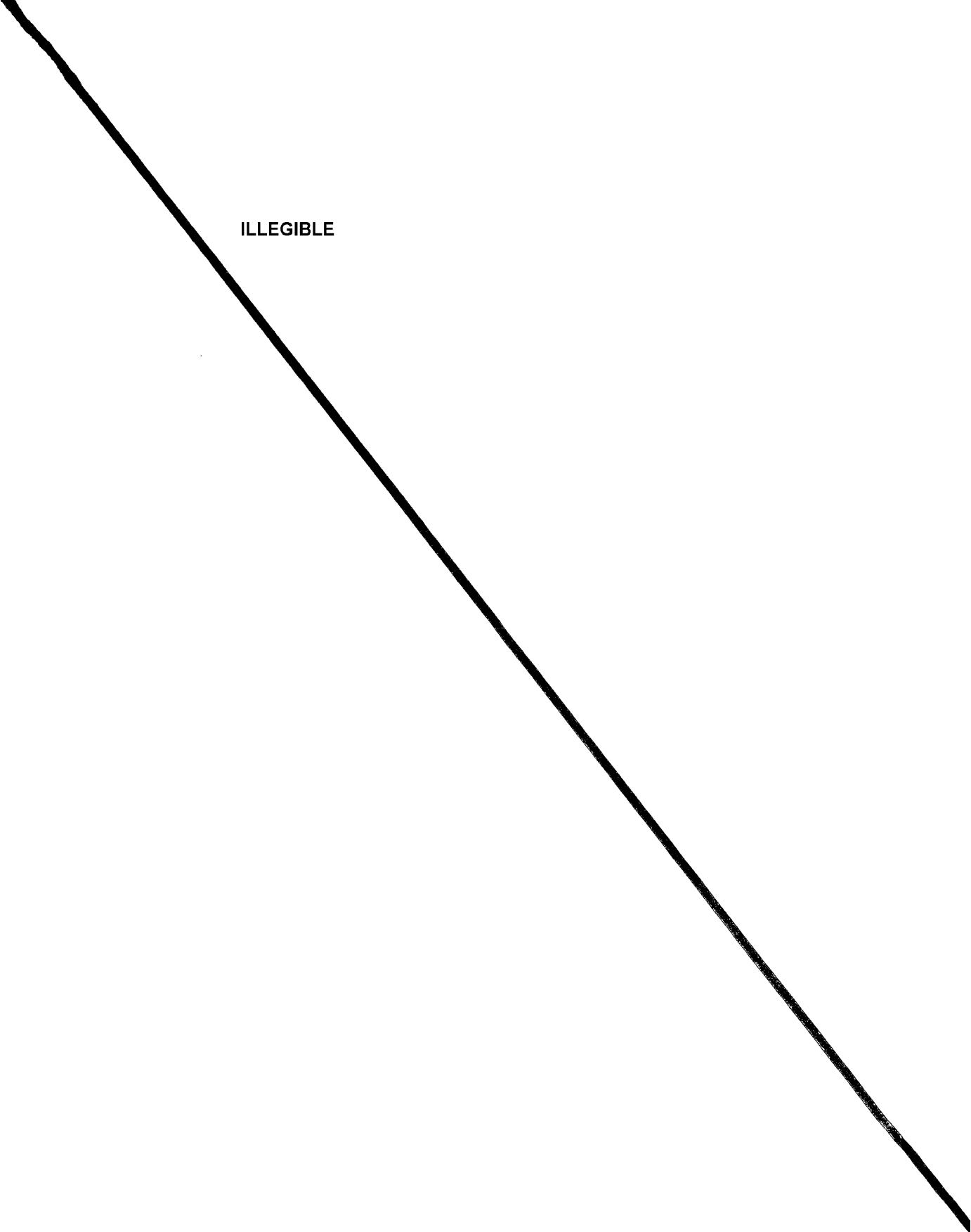
The reduction of acid amides with lithium aluminum hydride. VUKIC M. Micovic and Mihailo Lj. Mihailovic (Serbian Academy of Sciences, Belgrade, Yugoslavia). J. Org. Chem. 18, 1180-200 (1953). — The behavior of various acid amides toward LiAlH<sub>4</sub>, (I) and the effect of different reaction conditions on the type of reaction products obtained are studied. Adding 1 mole amide in ether to 0.5 mole + 30% excess I in ether at such a rate as to maintain gentle boiling, heating, and stirring the mixt. another hr., adding, with ice-cooling, 15% NaOH (*n* cc. and 3*n* cc. H<sub>2</sub>O for *n* g. I), stirring 20 min., dissolving the residue of the ether soln. in 10% HCl or H<sub>2</sub>SO<sub>4</sub>, making the washed (ether) aq. soln. alk., and extg. with ether give the corresponding amine. In this way, 1-benzoylpiperidine (II) gives 93.3% 1-benzylpiperidine, *b*<sub>1</sub> 122° (HCl salt, m. 178-9°; picrate, m. 178.5-9°); 1-acetyl piperidine gives 92.3% 1-ethylpiperidine, *b* 120-8° (picrate, m. 108-9°); 1-acetyl-1,2,3,4-tetrahydroquinoline gives 90.6% 1-Et analog, *b*<sub>1</sub> 130-2° (picrate, m. 117-18°); BzNEt<sub>3</sub> gives 91.9% PhCH<sub>2</sub>NEt<sub>3</sub>, *b*<sub>1</sub> 84-5° (picrate, m. 120°); *N,N*-diethylnicotinamide (III) gives 84.1% 3-(diethylaminomethyl)pyridine (IV), *b*<sub>1</sub> 108-9° (di-HCl salt, m. 184-5°). 1-Benzoyl-1,2,3,4-tetrahydroquinoline (V) gives 52.0% PhCH<sub>2</sub>OH (VI), *b*<sub>1</sub> 92-2.5° (phenylurethan, m. 78°), 38.3% 1-benzyl-1,2,3,4-tetrahydroquinoline (VII), *b*<sub>1</sub> 100°, needles, m. 30.5-7°, and 45.0% 1,2,3,4-tetrahydroquinoline (VIII), *b*<sub>1</sub> 121-2° (HCl salt, m. 180-1°); when the reduction is carried out at 5°, 73.6% VI, 21.4%

VII, and 72.4% VIII are obtained. Reduction of PhNHAc gives 92.9% PhNHEt, *b*<sub>1</sub> 93-4° (picrate, m. 137.5-8°); *N*-cyclohexylacetamide, (5.9 g.) and 2.4 g. I in 450 cc. ether give 88% *N*-ethylcyclohexylamine, *b* 159-62° (phenylurea deriv., m. 124-5°); *N*-benzoylcyclohexylamine gives 89.5% (*N*-cyclohexylbenzylamine, *b*<sub>1</sub> 143-4° (phenylurea deriv., m. 121-2°)). Heating 8.6 g. 1-benzoylpyrrole (IX) with 1.66 g. I in 250 cc. ether gives 85.0% pyrrole (X), *b* 120-31°, and 80% VI; 1-acetylpyrrole gives 82.0% X; 1-benzoylindole (XI) gives 92.5% VI and 89.5% indole (XII), *b*<sub>1</sub> 122-5-4°, m. 51°; 1-acetylindole gives 93.1% XII. Refluxing 4.0 g. 9-benzylolearbazole (XIII) 1 hr. with 0.6 g. I in 230 cc. ether gives 90% carbazole (XIV), m. 237-9°, and 80.4% VI. PhCH<sub>2</sub>:CHCONEt<sub>2</sub> gives 29.8% PhCH<sub>2</sub>:CHCO<sub>2</sub>OH, *b*<sub>1</sub> 140-3° (phenylurethan, m. 90-90.5°). Adding over a period of 15 min. 0.34 g. I in 34 cc. ether at -15° to 6.38 g. BzNEt<sub>3</sub> in 120 cc. ether and stirring the mixt. 0.5 hr. at -15° and 1 hr. at 20° give 36.6% BzH, 11.6% VI, and 28.2% unchanged BzNEt<sub>3</sub>, *b*<sub>1</sub> 152-3°; similarly, II gives 17.9% VI, 47.1% BzH, and 20.5% unchanged II; V gives 13.7% VI and 49% BzH; III, 12.9% nicotinaldehyde, *b*<sub>1</sub> 83-7° (thiocsemicarbazone, m. 213-14°(decompn.)), 5.1% IV, 28% 3-pyridinemethanol, *b*<sub>1</sub> 138-43° (picrate, m. 158°), and 24.9% unchanged III. Adding 0.85 g. IX in 100 cc. ether to 0.38 g. I in 38 cc. ether at -10° and stirring the mixt. 0.5 hr. at -10° and 1 hr. at 20° give 82.1% X and 54.1% BzH; at 0°, 74.5% X and 51.7% BzH are obtained. Similar reduction of 8.85 g. XI gives 55.5% BzH; at 0°, 53.5% BzH. Adding 0.17 g. I in 17 cc. ether to 4.9 g. XIII in 150 cc. ether at -15° give 60% BzH and 83.3% XIV; at 0°, 55% BzH and 80% XIV are formed. Heating 16.7 g. XIV and 17.5 g. PhCH<sub>2</sub>:CHCOCl 1 hr. at 185-95° give 66.3% 9-cinnamoylcarbazole, m. 96.5-7° which, reduced at -10°, gives 89.8% XIV and 45.2% PhCH<sub>2</sub>:CHO (XV) (phenylhydrazone, m. 106-7°); at 0° 89.8% XIV and 45% XV are formed. A mechanism is proposed to explain the course of these reductions.

F. E. Brauns

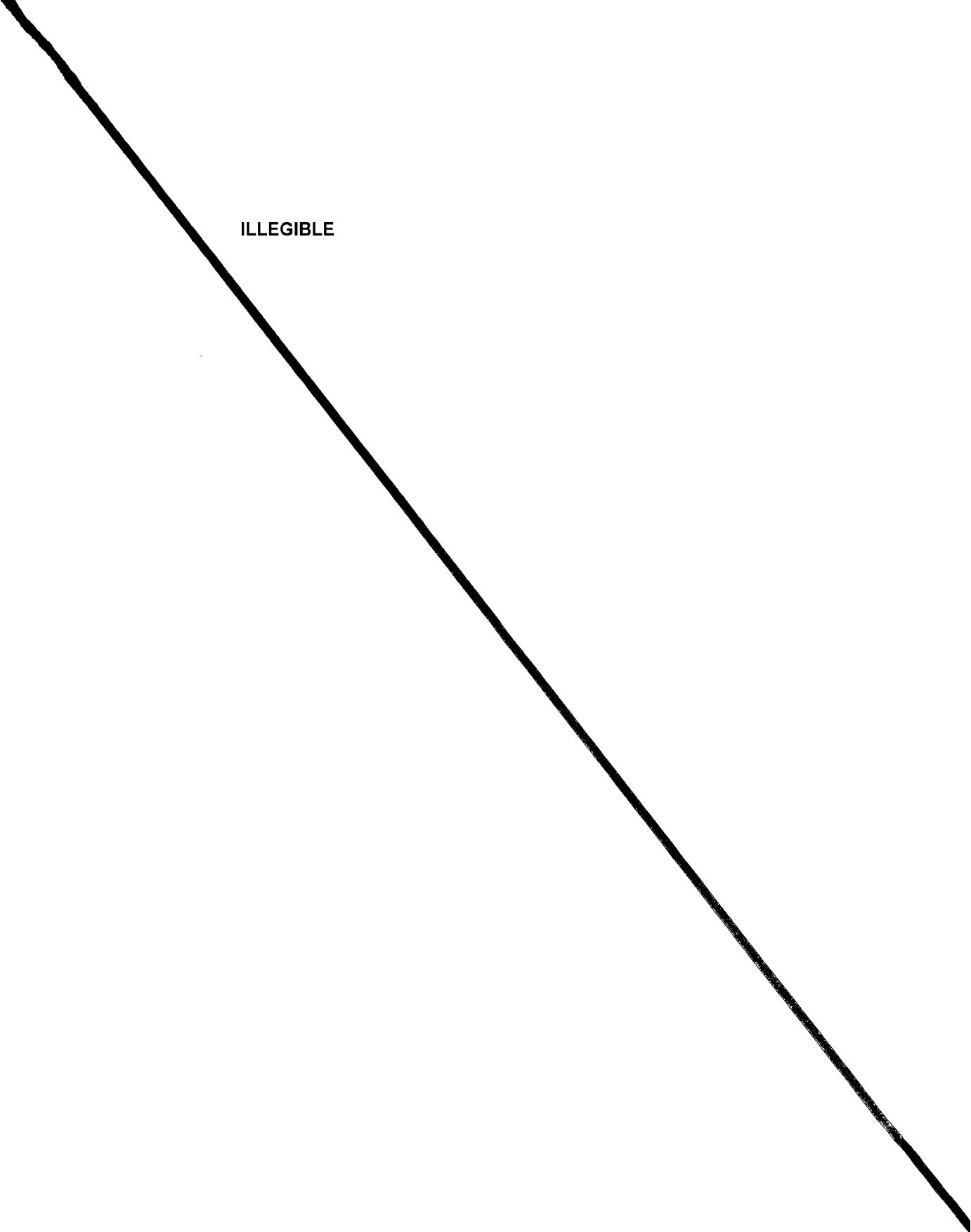
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BII-1  
General

Reduction of acetylenic acids by lithium aluminium hydride.  
V. M. Mićović and M. Lj. Mihailović (*Bull. Soc. Chim., Belgrade*, 1951, **16**, 19-25; see A., 1951, II, 113 and 182). To a suspension (180-250 c.c.) of  $\text{LiAlH}_4$  (63-86 g.) in anhyd.  $\text{EtO}_2$  through which a current of  $\text{N}_2$  is led, a solution of an acetylenic acid (9-19 g.) is slowly added under const. stirring and the mixture is heated on

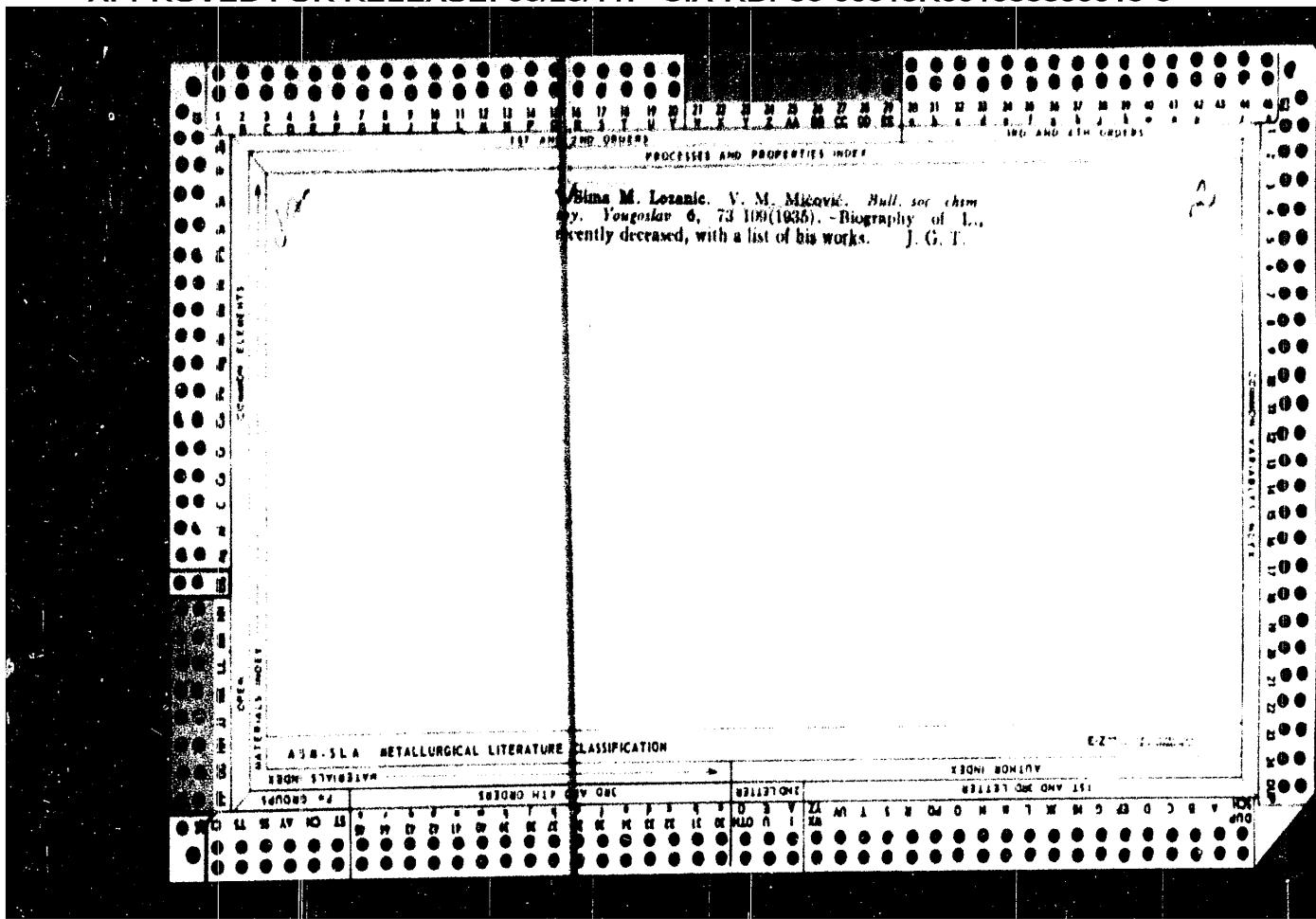
a water bath for 30-60 min. The mixture is cooled with ice, decomposed with ice water, filtered, the filtrate dried with anhyd.  $\text{Na}_2\text{SO}_4$ , distilled, and the alcohol isolated chromatographically on  $\text{Al}_2\text{O}_3$  in  $\text{CCl}_4$ -light petroleum (1:3) solution. These are prepared:  $\text{CH}_3\text{C}(\text{H})\text{C}(\text{H})_2\text{OH}$  (65.3% from propionic acid), b.p. 95-97°, cinnamic alcohol (61%), m.p. 33°; and 3 cyclohexylprop-2-n-1-ol (81%),  $\text{C}_9\text{H}_{14}\text{O}$ , b.p. 128.1/25 mm.,  $d_4^{20}$  0.952,  $n_4^D$  1.4889 (carbanilide, m.p. 98-99°); the last-named reduced with Pt black yields 3-cyclohexylpropan-1-ol, b.p. 118.5/19 mm. (carbanilate, m.p. 87.5°).

S. S. MIHOLIĆ

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1966  
Vol. 14 No. 6

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APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800015-6

**Chemical nomenclature.** V. M. Mićović. *Bull. soc. chim. roy. Yougoslav.* 2, 225-46 (1931). A comparative study of the chem. terminology in Slavonic and other languages with remarks about historical development and derivation of some terms and some suggestions for simplification and coordination with internationally accepted terms 1-43 Forris

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ASA-SEA METALLURGICAL LITERATURE CLASSIFICATION

1019-0284(78)  
01:14:381-3947-3A7

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Report on the International Symposium on Organic Chemistry,  
Brussels, June 12-16, 1962. Glas SANU 14 no.1:66-67 Ja-Je  
'62 [publ. '63]

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TEHNIKA (Savaz inzenjera i tehnika Jugoslavije)  
Beograd. Vol. 11, no. 5, 1956

SOURCE: East Europe Accession List (EEAL),  
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Public Health

YUGOSLAVIA

GERIC, R., Dr., Prof.; SIVIC, A., Ph.D., Dr.; VICOVIC, P., Dr.:  
The "Boris Kidric" Health Station; Institute for Hygiene of the  
Faculty of Medicine, Belgrade (Dom zdravlja "Boris Vidric"; Higi-  
jenski institut Medicinskog fakulteta - Beograd), Belgrade.

"A Contribution to the Study of the Health Status of the Population"  
Belgrade, Narodno zdravje, vol 22, No 3, 1966, pp 80-87

Abstract: Discussed in this article are the health status and  
hygienic conditions in some areas of the Savski Venac Borough  
of Belgrade. One of the goals of this investigation was to es-  
tablish the influence of external environmental and social-ec-  
onomic conditions on the health status, morbidity structure, and  
the occurrence of so-called social diseases. The tables in this  
article present living conditions, disposition of waste matter,  
water provision, the content of albumins, fats, vitamins, carbo-  
hydrates, and mineral matter in daily meals, family, age, and  
professional structures, use of alcohol and tobacco, and the  
structure of more common illnesses. No references.

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  2. "Effect of Bleach Bath in Animal Protein on the Course of Post-Radiation Syndrome." Z. V. MCGOWAN (Editor). Report Institute of Radiobiology and Radiotherapy (Bielany) (Translated from the Russian by Madiylov KELIAZOV SKUL' MD); pp 109-117.
  3. Report on the Work of Surgeons Done by the Cardiac Surgical Center of the Krakow Medical Specialist Hospital. Madiylov LASKOWSKI (Editor) of the MSS (Medical Surgical Hospital, Central Cardiac Surgery) in Krakow (Ordinary: Dr. Sierakow; Special: Szczesniak, MD); pp 116-119 (English summary).
  4. "Use of Hypothermia in Cardiac Operations." Tadeusz POLICZKOWSKI of the Cracow Scientific Institute of the Chest (Medical Center), Krakow (Editor); Dr. ANDRZEJ WOZNIAK (Branch of the MSS in Krakow); pp 119-121.
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  6. "Construction and Inoperability of the Chest Surgery." Jozef HESS of the First Surgical Branch of the MSS in Krakow; pp 123-126 (Russian summary).
  7. "Congenital Atrial Venous Anomaly of the Pulmonary Circulation Cured by Surgery." Wiktor BROSS of the Second Surgical Clinic (II Klinika Chirurgiczna) of the Medical Academy in Wroclaw (Director: Prof. Dr. Wiktor BROSS); pp 128-131 (Russian summary).
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1. Chair of Pharmacology (Director: Prof. D. Paskov).

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Cytochemical and cytoenzymatic leukocytic disorders in chronic  
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(HEPATITIS) (HEPATITIS, INFECTIOUS) (LEUKOCYTES)  
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(PEROXIDASES) (ENZYME TESTS) (BLOOD CHEMICAL ANALYSIS)

INCHIRMANU, Cornel, Inst. militari de studii tehnice, IFRUM'64, Timisoara  
ing.; MICOIA, Mircea

Experiments of combustion in suspension for mixed Anisac oil.  
Energetica Rum 13 no.1:8-12 Ja '65.

1. Lecturer, Polytechnic Institute, Timisoara (for Ungureanu).
2. Head of the Electric Power Control, Banat region (for Peleman).
3. Chief Engineer, Regional Electric Enterprise, Banat (for  
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MICOCH, L. A new measuring instrument for turbine blades. Tr. from the German.  
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Vol. 1. No. 12, Dec. 1956  
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Sov. East European Accessions, Vol. 6, No. 5, May 1957

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MICOCH, K.

Mechanization of casting gray iron in permanent molds, p. 6,  
SLEVARENSTVI (Ministerstvo strojirenstvi a Ministerstvo hutniho  
prumyslu a rudnych dolu) Praha, Vol. 3, No. 1, Jan. 1955

SOURCE: East European Accessions List (EEAL) Library of Congress,  
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FRANCHE, M.; VITA, Alia; BESLEAGA, E.; APOSTOL, A.; BALTIU, Ariadna; BATCU, A.; BLINDU, P.; BLUM, Miria [deceased]; BRAUNER, E.; CUCIUREANU, Georgeata; DUMITRIU, St.; FELLER, H.; MICO, I.; MIHUL, Valentina; OVANESCO, A.; PAPP, E.; RADULESCO, Al.

Contributions concerning allergic complications of scarlatina within the scope of data obtained by current research. Arch. roum. path. exp. microbiol. 22 no. 4:909-918 S-D'63

1. Travail de l'Institut Medico-Pharmaceutique, Jassy, et de l'Hopital des Maladies Contagieuses de Jassy.

HOLAN Tiberiu, dr.; MICLUTEA, Marcel, dr.

Our experiences with the diagnosis of breast cancer using P<sup>32</sup>.  
Magy. radiol. 15 no.2:101-105 Ap '63.

1. A Cluj-kolozsvari Orvosi es Gyogyszerezeti Intezet (rektor: prof.  
A. Moga akademikus) Nuklearis Orvosi Osztalya (vezeto: T. Holan dr.  
kandidatus) kozlemenye, Roman Nepkoztarsasag.  
(PHOSPHORUS ISOTOPES) (BREAST NEOPLASMS) (MASTITIS)  
(DIAGNOSIS)

HUNGARY

HOLAN, Tiberiu, Dr., MICLUTEA, Marcel, Dr; The Medical and Pharmaceutical Institute of Cluj-Kolozsvár (Cluj-kolozsvári Orvosi és Gyógyszerészeti Intézet) (rector: MOGA, A., professor, academician) Nuclear Medical Department (Nuklearis Orvosi Osztály) (chief: HOLAN, T., Dr, candidate) Roumanian People's Republic.

"The Diagnosis of Breast Cancer by Means of Radioactive Phosphorus."

Budapest, Magyar Radiologia, Vol XV, No 2, Apr 63, pages 101-105.

Abstract: [Authors' English summary modified] Radiation measurements were made 1-2-3 days after oral administration of 100 micro-curies of P32. Higher than 40 per cent accumulation of the isotope was indicative in general of a malignant tumor, lower values were present in benign tumors according to the authors. The observation was confirmed by histological examination in two third of the cases. The rate of accumulation was also higher in the malignant tumors. The method is recommended for the determination of the most favorable time for X-ray therapy.  
6 Western, 6 Eastern European references.

1/1

MICLOSI, V., inz.; BOARNA, C., inz.; LOMBARDINI, inz. [translator]

Contribution to the metallurgy of flash welding of railway tracks with higher carbon content. Zvar sbor 11 no.1:45-54 '62.

1. Akademia vied Rumunskej ludovej republiky, Ustredie technickeho vyskumu Timisoara (for Miclosi, Boarma). 2. Vyskumny ustav Fvaracskey, Bratislava (for Lombardini).

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001033800015-6

MICLOSI, V.

The 3d International Congress of Welding; Halle/Saale, Eastern Germany.  
Studii tehn Timisoara 9 no.1/2:205-210 Ja-Je '62.

MICLOSI, Viorel, inz.

Contribution to the automation of the flash butt welding. Zvar  
sbor 10 no.1:51-64 '61.

1. Rumunska akademia vied, Timisoara.

MICLOSI, V; GIRLESTEAN, Eliza; BOARWA, Clara

Electric welding through the intermediate fusion of the rods  
TOR 47. Studii tehn Timisoara 8 no.3/4:323-342 J1-D '61.

Welding of rails with...

S/137/62/000/006/148/163  
A057/A101

Clamps of the welding machine at a distance between the clamps of  $115 \pm 5$  mm. The hardness  $H_V 30$  was measured along the longitudinal cut across the butt. In processes A, B and C, zones with a mean hardness 320 - 355  $H_V$  were observed near the seam, i. e. 40 - 50  $H_V$  higher, than of the base metal. In the process D these zones disappeared and the hardness exceeded 320  $H_V$  only at some points, but occasionally hard places were obtained under the clamps. To clear up the effect of the thermal cycle of welding upon the metal of rails, tests were carried out with notched and not notched impact samples. Tests after thermal treatment showed a decrease of the impact force at a temperature below 0°C in comparison with the state after welding. The previous paper see in Referativnyy Zhurnal. Metallurgiya, 1961, 12E59.

Ye. Greyl'

[Translator's note: Complete translation]

Card 2/2

S/137/62/000/006/148/163  
A057/A101

AUTHORS: Micloșl, V., Boarnă, C.

TITLE: Welding of rails with increased carbon content by intermittent  
flashing. Second part - a.

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 6, 1962, 4, abstract 6E25  
("Studii si cercetări științe tehn. Acad. RPR. Baza Timișoara",  
1961, v. 8, no. 1 - 2, 59 - 70, Rumanian; Russian and French sum-  
maries)

TEXT: The hardness of the zone of thermal influence after welding and  
thermal treatment was investigated. The welding was carried out by four methods:  
A - by continuous flash welding with a length of the flashed off part  $l =$   
 $20.5 \text{ mm}$ ; B - with normal heating (21 pulses) at  $l = 11.0 \text{ mm}$ ; C - with prolonged  
heating (40 pulses) at  $l = 21.0 \text{ mm}$ ; D - with normal heating (21 pulses) at  
 $l = 20 \text{ mm}$  and subsequent normalizing of the butt. Heating current 24,500 a,  
duration of the pulses in heating 2 seconds, specific pressure of shrinkage  
 $5.4 \text{ kg/mm}^2$ . The normalizing at  $800^\circ\text{C}$  during 30 sec. was carried out in the

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