"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.

Studying slanting stratification in lower Jurassic continental deposits along the Amga River in the Yakut A.S.S.R. Trudy VAGT no.2:180-182 '56. (MLRA 10:5)
(Amga Valley--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

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BIDZHIYEV, R.A.

[redacted]

New data on the tectonic structure of the Cis-Verkhoyansk Depression. Dokl. AN SSSR 111 no.2:407-409 N '56. (MLRA 10:1)

1. Vsesoyuznyy aerogeologicheskiy trest Ministerstva geologii i lkhrany nedr SSSR. Predstavleno akademikom N.S. Shatksim.
(Verkhoyansk Range--Geology, Structural) (Lena Valley--Geology, Structural)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.; KARAVAYEV, M.N.

Recent materials on Neogene deposits of central Yakutia; the problem of Mount Mamontova. Vest.Mosk.un.Ser.biol., pochv., geol., geog. 14 no.4:117-124 '59. (MIRA 13:6)

1. Kafedra paleontologii i geobotaniki Moskovskogo universiteta. (Aldan Valley--Geology, Stratigraphic)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

3(5)

AUTHOR: Bidzhiyev, R. A.

TITLE: On a Quaternary Depression in the South-eastern Part of the Priverkhoyanskiy Border Downwarping

SOV/20-127-2-46/70

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 398-401 (USSR)

ABSTRACT: In the course of the geological and geomorphological area surveys in Central Yakutiya (1950) an immense area of arenaceous-argillaceous and arenaceous sediments was discovered for the first time in the Lena-Amga interfluvial region. These sediments fill up a recent depression, mainly in the zone of the Nizhne-Aldanskaya foothill depression (Ref 1). This mass was extracted by boring or mining. It is a complex of formations of extremely complicated structure of an alluvial lake genesis and of Lower, Middle Quaternary age respectively. Loess-like and carbonate argillaceous rocks, partly in considerably quantities, partly predominant, are characteristic here. They have, as a rule, not distinctly marked texture characteristics. G. F. Lungersgauzen determined from several bore-holes a stunted lake fauna with thin mussel shells. At one place an ice lentil of 21 m thickness was pierced (depth 29-50 m). Fossil ice

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occurs also in upper layers. The above Quaternary complex rests upon various sediment horizons of Cretaceous, Jurassic, and Cambrian. Basalt conglomerate occurs often on its base. The distribution region of the said alluvial sediments has a characteristic relief: (a) the alluvial lake sediments have mainly an Alas relief (Alas - a caldron depression with meadow vegetation, often with smaller lakes, formed by depressions in consequence of the melting of buried ice) with absolute elevations of 220-240 m and lower (in the north) and 270-280 m and more (in the south). (b) the region of the "Bestyakhskaya" terrace has a much more balanced relief. The delimitation of the formations (a) is difficult since they occur on the right bank of the river Aldan as well (Fig 3). They lack completely on the left bank of the river Lena. The total character of the hypsometry of the sole of the mentioned Quaternary mass (Fig 1) was explained by bore drilling. It is sufficiently complicated (Figs 1-3). The configuration of the distribution region of the complex discussed here, the peculiar hypsometry of its sole, and the considerable thickness (20-130 m) lead to the assumption that depressions of the earth's surface occurred in Quaternary

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On a Quaternary Depression in the South-eastern Part of the Priverkhoyanskiy Border Downwarping SOV/20-127-2-46/70

in the interfluvial region of the rivers Lena, Amga, and Aldan. These formed a recent tectonic depression which inherited its development from Tertiary, i.e. from the formation time of the lower Aldan foothill depression. This depression is assumed to be a migrating element in the total depression of the region (Figs 1 and 2). Transversal local elevations in the Verkhoyan'ye and Priverkhoyan'ye are assumed to be the reason of this transversal depression (Ref 2). There are 3 figures and 2 Soviet references.

ASSOCIATION: Vsesoyuznyy aerogeologicheskiy trest (All-Union Aerogeological Trust)

PRESENTED: February 13, 1959, by D. V. Nalivkin, Academician

SUBMITTED: February 4, 1959

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

NEVYAZHSKIY, I.I.; BIDZHIYEV, R.A.

Aeolian relief forms in central Yakutia. Izv.AN SSSR.Ser. geog. no.3:90-95 My-Je '60. (MIRA 13:6)

1. Vsesoyuznyy Agrogeologicheskiy trest.
(Yakutia--Sand dunes)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.

Facies of Oligocene coal-bearing sediments in the lower Aldan Valley (central Yakutia). Izv. vys. ucheb. zav.; geol. i razv. 3 no.7:31-41 Jl '60. (MIRA 13:9)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Aldan Valley--Coal geology)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.; MINAYEVA, Yu.I.

Stratigraphy of Jurassic sediments in the northern fault of the Verkhoyansk piedmont region. Geol. i geofiz. no.11:47-62 '61. (MIRA 15:2)

1. Vsesoyuznyy aerogeologicheskiy trest, Moskva.
(Verkhoyansk Range--Geology, Stratigraphic)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.; MINAYEVA, Yu.I.

Sources of drift during the formation of lower Jurassic continental deposits in central Yakutia (basin of the Amga River). Dokl. AN SSSR 136 no.2:412-415 '61. (MIRA 14:1)

1. Vsesoyuznyy aerogeologicheskiy trest. Predstavleno akademikom A.L. Yanshinym.

(Amga Valley—Drift)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

MINAYEVA, Yu.I.; BIDZHIYEV, R.A.

Middle Paleozoic weathering surface in the northeastern part of the Siberian Platform. Trudy VAGT no.8:21-24 '62. (MIRA 15:11)
(Siberian Platform--Weathering)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.; MINAYEVA, Yu.I.

Source material in the formation of Jurassic sediments in the northern Verkhoyansk piedmont and the adjacent part of the Vilyuy syneclise. Trudy VAGT no.8:42-49 '62. (MIRA 15:11)
(Verkhoyansk range region--Petrology)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.

Distribution of "minor" chemical elements in the Jurassic Lower and Cretaceous sediments of the Verkhoyansk piedmont. Dokl. AN SSSR 157 no.1:112-115 Jl '64 (MIRA 17:8)

1. Predstavleno akademikom N.M. Strakhovym.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZHIYEV, R.A.

Zonal division of Jurassic sediments in the northern part of the Verkhoyansk piedmont. Geol. i geofiz. no.4:49-57 '65. (MIRA 18:8)

1. Vsesoyuznyy aerogeologicheskiy trest, g. Moskva.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

USSR / Plant Physiology. General. I

Abs Jour : Ref Zhur - Biol., No 1, 1959, No 1257

Author : Bidzilya, N. I.
Inst : Not given
Title : Effect of Ultraviolet Irradiation on Plants (Report)

Orig Pub : Byul. po Fiziol. Rastoniy, No. 3, 91-96, 1958

Abstract : A survey. Bibliography with 23 titles.

Card 1/1

2

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

AUTHORS: Vlasyuk, P. A., Member, AS Ukrainian SSR, Bidzilya, N. I. 20-119-1-17/52

TITLE: The Influence of β-Particles From Radioactive Isotopes Upon the Size Variation of the Chloroplasts of Elodea Canadensis (Vliyaniye β-chastits radioaktivnykh izotopov na izmeneniye velichiny khloroplastov Elodea canadensis)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 1, pp. 65-67 (USSR)

ABSTRACT: The present paper is devoted to an examination of the influence of β-particles of the radioactive isotopes S^{35}, Ca^{45}, W^{185} and P^{32} upon the size variation of the chloroplasts in the cells of Elodea canadensis. First the authors report shortly on previous papers dealing with the same subject. The leaves of Elodea canadensis consist of 2 layers of cells and are suited for the microscopical investigation of the chloroplasts in vivo. The Elodea culture was taken from natural waters and reared in aquariums with river sand and tap water. After 5 months from the young plants, which were reared in the

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

The Influence of β-Particles From Radioactive Isotopes Upon the Size Variation of the Chloroplasts of Elodea Canadensis 2o-119-1-17/52

aquariums, about equally old 7-8 cm long twigs were taken. Each 3-4 of them were put into glass containers with each 2oo g of river sand and 1/2 liter of water. After a week radioactive isotopes were introduced into these containers in the form of solutions of the salts $Na_2S^{35}O_4$, $Ca^{45}SO_4$, $Na_2W^{185}O_4$ and $K_2HP^{32}O_4$. The experiments took place in 1956 and 1957. On the control experiments also shortly is reported. The plants obtained beside the natural scattered light a daily illumination throughout 8 hours by 4 lamps of 75 watt each. Two days after the introduction of the radioactive isotopes the shape and the size of the chloroplasts in the cells of the Elodea was investigated microscopically. The results of the measurements are composed in a table. A diagram illustrates the progressing size variation of the chloroplasts. The most effective influence upon the size variation of the chloroplasts have the β-particles of W^{185}. On the 9th day after

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

The Influence of β-Particles From Radioactive Isotopes Upon the Size Variation of the Chloroplasts of Elodea Canadensis 20-119-1-17/52

the beginning of the β-irradiation the diameter of the chloroplasts, which were irradiated by W^{185}, increased by 40% compared with the control plants. The stable isotopes influence the size of the chloroplasts of Elodea only very insignificantly. From the results of the here discussed experiments the following results: For the biological effect of the ionizing radiation not only the quantity of the radioactive isotope and of its radiation is of importance, but also the radiation energy of its particles. The highest energy have the radiation from P^{32} and W^{185} and the biological effect of these isotopes actually is the greatest. Beside the size variation of the chloroplasts also the acceleration of the motion of the protoplasm in the cells was observed in these plants. This obviously is a consequence of the increased hydration of the protoplasm under the action of the radiation. From all the here reported facts the following preliminary conclusion can be derived: Even low doses of β-radiation of the isotopes

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

The Influence of β-Particles From Radioactive Isotopes Upon the Size Variation of the Chloroplasts of Elodea Canadensis

20-119-1-17/52

S^{35}, Ca^{45}, P^{32} and W^{185} cause an increase of the size of the chloroplasts of Elodea and the radiation energy of the β-particles plays a special rôle in this case. There are 2 figures, 2 tables and 3 references, all of which are Soviet.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy institut fiziologii rasteniy (Ukrainian Scientific Research Institute for Plant Physiology)

SUBMITTED: September 30, 1957

Card 4/4

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZILYA, N. I.: Master Biol Sci (diss) -- "The effect of nuclear radiations on the oxidative enzymes of plants". Kiev, 1959. 14 pp (Acad Sci Ukr SSR, Inst of Botany), 100 copies (KL, No 7, 1959, 122)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZINSKI, Jerzy

Artificial refrigeration and hibernation. Neurologia etc. polska 4 no.5:545-549 Sept-Oct 54.

1. A kliniki neurochirurgii A.M. w Warszawie - kierownik prof. dr. J.Chorobski

(HIBERNATION, artificial
ther. use, review)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZINSKI, Jerzy; WRONSKI, Jerzy

Respiratory disturbances during artificial hibernation in neurosurgical cases. Neur. &c. polska 5 no.6:643-652 Nov-Dec 55.

1. Z Kliniki Neurochirurgii A.M. w Warszawie. Kierownik: prof. dr. J. Chorobski, Klinika Neurochirurgiczna, Warszawa, Oczki 6.
(HIBERNATION, artif.
in neurosurg., causing resp. disord.)
(RESPIRATION
disord., during artif. hibernation in neurosurg.)
(NEUROSURGERY, anesth. and analgesia
artif. hibernation, causing resp. disord.)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZINSKI, Jerzy

Anesthesia in neurosurgical interventions. Neur. &c. polska 6 no.1:1-12 Jan-Feb 56.

1. Z Kliniki Neurochirurgii A. M. w Warszawie, Kierownik: prof. dr. J. Chorobski.
(BRAIN, surgery,
anesth. (Pol))
(ANESTHESIA,
in brain surg. (Pol))

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZINSKI Z., SOSNOWSKI K.

Ustawodawstwo dewizowe (Foreign currency law) by Z. Bidzinski, K. Sosnowski. Reported in New Books (Nowe Ksiazki.) March 1, 1956.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZINSKI, Jerzy

Neurological manifestations caused by hypoglycemia. Neur. &c. polska 9 no.3:327-339 Je-Jl '59.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Warszawie Kierownik: prof. dr J. Chorobski.
(HYPOGLYCEMIA compl)
(NERVOUS SYSTEM dis)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIDZINSKI, Jerzy

A case of Avellis' bulbar hemisyndrome in uremia. Neur. &c. polska 9 no.4:447-452 Jl-Ag '59.

1. Z Kliniki Neurochirurgii A.M. w Warszawie Kierownik: prof. dr J. Chorobski.

(VOCAL CORD PARALYSIS compl)
(UREMIA compl)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BANACH, Stefan; BIDZINSKI, Jerzy; MAZUROWSKI, Witold

Trauma as a cause of prolapse of the nucleus pulposus of the intervertebral disk. Chir. narzad. ruchu ortop. pol. 28 no.4:377-382 '63.

1. Z Kliniki Neurochirurgii AM w Warszawie p. o. kierownika kliniki: prof. dr L. Stepien.
(INTERVERTEBRAL DISK DISPLACEMENT)
(WOUNDS AND INJURIES)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

[illegible]

[illegible]
Gruzlica 32 no.3:[illegible]

1. Z Oddziału II (Kierownik: prof. dr. W. Jaros[illegible]
X (Kierownik: doc. dr. [illegible]) Instytutu Gruz[illegible]
[illegible]
prof. dr. L. Stopień.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

POLAND / Analytical Chemistry. Inorganic Analysis. E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 82008

Author : Rusiecki, Wladyslaw; Bidzinski, Zygmunt; Lenicka, Joanna

Inst : Not given

Title : The Use of Thio Compounds for the Detection of Metals in Forensic Chemical Analysis

Orig Pub : Farmac. polska, 1959, 15, No 7, 113-115

Abstract : The possibility of using thioacetamide and Na_2CS_3 instead of H_2S in forensic chemical analysis for the detection of Hg and As was studied. For the detection of Hg by precipitation from solutions obtained, following the mineralization of the biological material to be analyzed, Na_2CS_3 was found to be most useful; thioacetamide behaves similarly to H_2S. The

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

POLAND / Analytical Chemistry. Inorganic Analysis. E

Abs Jour : Ref Zhur - Khimiya, No 23, 1959, No. 82008

most complete precipitation of As as sulfide takes place when H_2S and Na_2CS_3 are used. On the basis of the data obtained, it is recommended that Na_2CS_3 be used instead of H_2S for the detection of Hg and As. -- A. Nemodruk

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L 29343-66 EWP(j)/EWT(m)/T IJP(c) RM/WW/JW

ACC NR: AP6018594 SOURCE CODE: UR/0379/66/002/002/0234/0239

AUTHOR: Pokhodenko, V. D.; Bidzilya, V. A.

ORG: Institute of Physical Chemistry im. L. V. Pisarzhevskiy, AN UkrSSR (Institut fizicheskoy khimii AN UkrSSR)

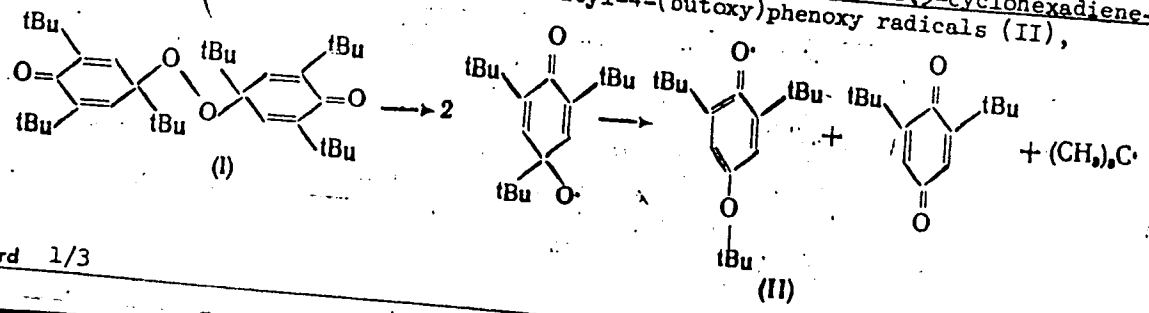
43
40
B

TITLE: Reaction of 2,6-di-tert-butyl-4-(butoxy)phenoxy and diphenylnitrogen radicals with molecules containing the NH and OH groups

SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 2, no. 2, 1966, 234-239

TOPIC TAGS: hindered phenol, oxidation inhibitor, electron paramagnetic resonance

ABSTRACT: The thermal decomposition of bis(1,3,5-tri-tert-butyl-2,5-cyclohexadiene-4-one) peroxide (I) to form 2,6-di-tert-butyl-4-(butoxy)phenoxy radicals (II),



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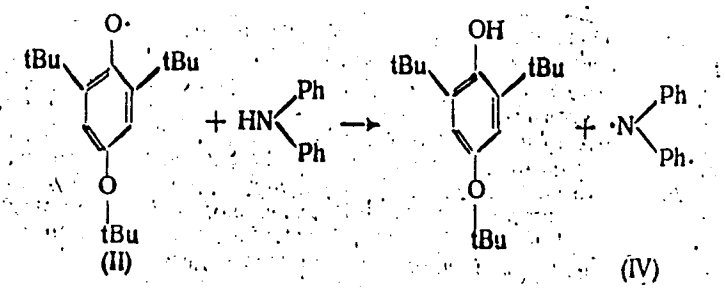
ACC NR: AP6018594

and the reactivity of these radicals (II) were studied by EPR spectroscopy. It is noted that the study of the reactivity of radicals formed by oxidation of hindered phenols is of both theoretical and practical interest in view of the use of these phenols as oxidation inhibitors. The thermal decomposition of I was carried out in xylene solution at 80—100C. It was found that the thermal decomposition was a first-order reaction. It was also found that radicals (II) react with diphenylamine and 2,6-di-tert-butyl-4-methylphenol (Ionol), abstracting the hydrogen of their hydroxy groups, e.g.,



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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

L 29343-66
ACC NR: AP6018594

The reverse reaction, viz., the abstraction of hydrogen by the diphenylnitrogen radical from the hydroxy groups of hindered phenols to form the corresponding phenoxy radicals was also found to occur. In this case, the diphenylnitrogen radical was prepared by the thermal dissociation of tetraphenylhydrazine in organic solvents at 100C. Orig. art. has: 3 figures. [SM]

SUB CODE: 07, 20 SUBM DATE: 20May65/ ORIG REF: 008/ OTH REF: 013/ ATD PRESS: 5009

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APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.

CZECH

7 Gravimetric determination of molybdate as cadmium molybdate. A. Jilek and B. Bieber (Benes Tech. Univ., Brno, Czech.). *Acad. Tchèque Sci., Bull. Intern., Classe sci., math., nat., et med.* 52, 447-8(1951)(Pub. 1953)(in English).—Ppt. $CdMoO_4$ from boiling soln. at pH 6-7 by addn. of $Cd(NO_3)_2$ soln., wash once with 0.1% $Cd(NO_3)_2$ soln. and 3 times with H_2O, and dry at 110° and then at 270° to const. wt. Excess $NaNO_3$ has no effect. The ions WO_4^{--}, CrO_4^{--}, VO_4^{---}, PO_4^{---}, and AsO_4^{---} interfere. The use of other Cd salts gives incomplete pptn. Mo can be detd. in steel by this method after removing other cations by pptn. with Na_2CO_3. Michael Fleischer

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER BOLESLAV CZECH

Determination of considerable aluminum in cast iron without the mercury cathode. Boleslav Bieber and Zdeněk Veček (Research Inst. Materials and Technol., Brno, Czech.). *Slévárenství* 2, 296-[illegible].—To det. 1-25% Al in cast iron heat a sample contg. 0.02-0.04 g. Al in 3.0 N H_2SO_4. Evap. on the sand bath to fumes. After dilg. to 100 ml. with H_2O, filter off the SiO_2 and graphite and wash with hot dil. H_2SO_4. To the filtrate add 1 g. hydrazine sulfate and dissolve by heating. Add 5% $NaHCO_3$ soln. dropwise to a permanent turbidity, then add 0.17-0.18 ml. excess per mg. Al (double that amt. in presence of Cr). After a few min. heating on the sand or steam bath, filter off the $Al(OH)_3$, with some $Fe(OH)_3$ and $Cr(OH)_3$. Dissolve the washed ppt. in hot 6N HCl, and evap. nearly to dryness. Dissolve the residue in 25 ml. of H_2O with a few drops of HCl, add 25 ml. of 50% HOAc, and add NH_4OH until the soln. is reddish brown. To the cold soln. add 50-60 ml. of a 2% soln. of α-nitroso-β-naphthol in 50% HOAc to ppt. Fe, but not Al or Cr. After at least 6 hrs., filter and wash with H_2O and 50% HOAc. Evap. the filtrate, after addn. of 20 ml. of 40% H_2O_2 to oxidize excess α-nitroso β-naphthol, on the sand bath to near dryness. Dissolve the residue in 25 ml. of 6N HCl and dil. to 100-150 ml. To the hot soln., add 20 ml. of 3% H_2O_2 and enough NH_4OH to make the soln. basic. Ppt. the $Al(OH)_3$, and oxidize Cr^{++} is to CrO_4^{--}. Heat on the steam bath for ½ hr., filter, and wash with hot 3% NH_4NO_3 soln. If the ppt. is green with Cr, dissolve in HCl, and repeat the pptn. Ignite at 110° and weigh.

H. N.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.

Determination of magnesium in spheroidal cast iron. Prace, p. 107, 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, Vol. 5, No. 12, December 1956

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.

The Separation and Direct Determination of Titanium, Iron and Aluminium by Means of Cupferron and Complexone III. Z. Vodera and B. Bieber. (*Práce Československého Výboru Slévárenského* (*Appendix to Slévárenství*, 1955, 3, (11)). [In Czech].

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.; VECERA, Z.

Determination of aluminum content through electrolysis on mercury cathode after separating disturbing elements. p. 419. HUTNICKE LISTY. Brno. Vol. 10, no. 7, July 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, BOLESLAV

Czechoslovakia/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61832

Author: Bieber, Boleslav; Vecera, Zdenek

Institution: None

Title: Gravimetric Determination of Tin in Copper Alloys With the Use of Complexon III as a Masking Agent

Original Periodical: Vazkove stanoveni cinu ve slitinach medi za pouziti komplexonu III jako maskovaciho cinidla, Slevarenstvi, 1956, 4, No 2, 48-50; Czech; Russian, German, English, and French resumés

Abstract: For determination of Sn the sample (0.5-2 g) is dissolved with heating in 30 ml HCl (1:1) and several ml 40% H_2O_2, boiled, cooled, there are added Complexon III and 10 g NH_4NO_3, diluted to 100 ml, added NH_4OH (1:1) to pH 8-9; after ~18 hours filtered, precipitate washed with hot 1% (neutralized to methyl red) solution NH_4NO_3 and calcinated. In filtrate can be determined other metals: added 10 ml concentrated H_2SO_4, 10 ml concentrated HNO_3 and 10 ml 40% H_2O_2,

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.

9

2514. Photometric determination of arsenic in technical iron by silver diethyldithiocarbamate. Z. Večerá and B. Bieber (Výzkumný ústav materiálu a technol., výzkum slévárenský, Brno). *Slévárenství*, 1956, 4, 366-370. The method described is applicable to cast iron, carbon steel or pig iron. The sample is dissolved in HNO_3 - H_2O_2 (100 vol.) and fumed with H_2SO_4. Arsine evolved is passed into a solution of Ag diethyldithiocarbamate in pyridine, with the formation of an intense red colour. The Beer - Lambert law is obeyed in the range 0 to 40 μg of As per 10 ml of solution.

S.C.I. Austr.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, BOLESLAV

The determination of alkalies in sands. Jan Weiss and Boleslav Bieber (Výzkumný ústav materiálu technol.-slévárenský výzkum, Brno, Czech.). Slévárenství 10, 504-6(1956).—For the detn. of alkalies in sand used in a foundry a modification of the Berzelius method was developed. After treatment of SiO_2 with HF and H_2SO_4 the interfering cations are removed with ammonium carbonate, ammonium oxalate, and 8-quinolinol in ammoniacal medium. Alkalies are detd. gravimetrically in the filtrate as sulfates after ignition at 750 to 800°. Petr Schneider

2

Chem

LFH

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, BOLESLAV

Photometric determination of arsenic in technical [illegible] by silver diethyldithiocarbamate. Zdenek Vejela [illegible] [illegible] materials, [illegible] Prag[illegible]

[illegible] in photometry [illegible] introducing H [illegible] into the pyridine soln. of Ag [illegible] [illegible] I forms with this soln. a const. [illegible] [illegible] which corresponds to the [illegible] [illegible] of soln. [illegible] [illegible] not require expensive [illegible] The accuracy [illegible] [illegible] g. of specimen with an As content [illegible] percent, [illegible] As when weighing 0.1 g. of specimen with an As content in tenths percent. P. S.

BM

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, BOLESLAV

18

Routine total analysis of cupola slag. Boleslav Bieber and Zdeněk Večeřa (VUMT, výzkum slévárenský, Brno, Czech.). *Sborník* 9, 73-82(1957).—A new method of total analysis of cupola slag in 100-120 min. has been proposed and examd. and its time plan elaborated. SiO_2 is detd. gravimetrically after evapn. with NH_4Cl, total Fe by the photometric method with KCNS, Al_2O_3 by the complexometric method with retitration by $Zn(OAc)_2$ on Eriochrome Black T (I), TiO_2 by the photometric method on I, CaO by the complexometric method on mixed indicator of murexide and Naphthol Green, the total of CaO and MgO, by the complexometric method on I, Na_2O and K_2O by a flame photometer, S volumetrically after the decompn. of the sample in a Mars furnace in an O stream, and P_2O_5 by the photometric method with molybdate and vanadate. The proposed method reduces the time necessary for the procedure of the total analyses of cupola slag in foundry labs. and enables a better control of the fusion conditions in cupolas. The method can be also used for the analyses of silicates which decomp. under the effect of acids having a similar compn. to cupola slags, and for analyses of blast-furnace and steel-works slags, cement, etc. 29 references.

Petr Schneider

4

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, BOLESLAV,

27 15 6

Rapid determination of alkalies in foundry sands by flame photometer. Boleslav Bieber (VÚMT, výzkum slévárenský, Brno, Czech.). *Slévárenství* 9, 213-5(1957).—SiO_2 is removed by fuming with a mixt. of HF and H_2SO_4 in a Pt dish. After filtration Na_2O and K_2O are detd. by a flame photometer. A suitable calibrating curve has to be prepd. with references to their interdependence and to the content of CaO. 8 references. Petr Schneider

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, BOLESLAW

Distr: 4Eh3

/ Rapid analysis of cupola slag. Boleslaw Bieber and Zdenek Vecera. *Przegled Odlewnictwa* 8, 66-73(1958).—The principles of sampling cupola slag are discussed, and rapid methods for the detn. of all the components are outlined. SiO_2 is detd. gravimetrically by dissolving a sample in HCl and evapg. the soln. in the presence of NH_4Cl; ferric and ferrous oxides are detd. photometrically by using KCNS; Al_2O_3 is detd. by titration with complexon III and Eriochrome Cyanine T; titanium oxide is detd. photometrically with H_2O_2; manganese oxide is detd. by titration complexometrically with Eriochrome Cyanine T; CaO is detd. by titration with Naphthol Green in the presence of murexide; MgO is detd. by titration with Eriochrome Cyanine T in the presence of NH_3; S is detd. volumetrically after burning in a Mars furnace. The time of analysis is reduced to 2 hrs. The accuracy and reproducibility of results are satisfactory. A. Libacky

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27

Perchloric acid in the metallurgical laboratory. Boleslav Bieber and Zdeněk Večeřa (Státní výzkumný ústav materiálu technol., slévárenský výzkum, Brno, Czech.). *Hutnické listy* 13, 637-9(1958).—In a short survey the properties of $HClO_4$, its use for analyses in the metallurgical lab., and the safety principals as well as the equipment of hoods were described. 52 references. Petr Schneider

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42100.

Author : Vecera, Z.; Bieber, B.
Inst : Not given.
Title : Photometric Determination of Boron in Technical Iron after Decomposition of the Sample by Fusing It with Sodium Peroxide.

Orig Pub: Hutnicke listy, 1958, 13, No 9, 808-811.

Abstract: The sample to be analyzed, in the form of chips (0.5 g.), is carefully fused in a Ni crucible with 3 g. of Na_2O_2, stirring it with a Ni wire. The fusion is heated until it becomes dark-red-hot. After cooling it is treated with water (30-40 ml.). The mixture thus obtained is boiled for several minutes and it is saturated with CO_2 during ~15

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CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42100.

Abstract: minutes until NaOH is transformed into $NaHCO_3$; 0.5-1 g. of $FeSO_4$ is added to reduce CrO_4^{-2}. The mixture is boiled again, mixed with pieces of filter paper, and passed through a paper filter. The deposit (compounds of Fe, Cr, Mn and Ni) is washed five times in 5-6 ml. of a hot 1% solution of $NaHCO_3$ and water. 10 ml. of H_2SO_4 (1:1) are added in small doses to the filtrate, evaporated in a Pe [sic!] or in a Ni cup until the salts are separated, and the mixture is diluted with water up to 25 ml. A small crystal of $N_2H_4 \cdot H_2SO_4$, ~15 ml. of concentrated H_2SO_4, 2 ml. of a solution of quinalizarin (0.01 g. in 100 ml. of concentrated H_2SO_4) are added to 4 ml. of the solution thus obtained. It

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42100.

Abstract: is diluted with a concentrated solution of H_2SO_4 up to 25 ml. The solution is left standing for 30 minutes and measured with a photometer, using a S61 color filter in a 5 cm. vessel. The solution of the control experiment is used for comparison. -- N. Turkevich.

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: CZECHOSLOVAKIA E

: Analytical Chemistry. Analysis of Inorganic Substances

: Ref Zhur - Khim., No 5, 1959, No. 15085

: Bieber, B.; Vecera, Z.

: -

: Determination of Uranium by Means of Cupferron in the Presence of the Ammonium Salt of Ethylenediaminetetraacetic Acid

: Chem. listy, 1958, 52, No 3, 439-443

: A rapid gravimetric method for determination of U (+6), based on the precipitation of U from a neutral medium with two to threefold excess of a 2% aqueous solution of cupferron (C), is described. The composition of the yellow-orange precipitate of uranyl cupferronate (UC) which is being formed is expressed by the formula $UO_2(C_6H_5N_2O_2)\cdot C_6H_5N_2O_2NH_4$. It was established thermogravimetrically that UC

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Country : CZECHOSLOVAKIA E
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15085

Author :
Institut. :
Title :

Orig Pub. :

Abstract Cont'd : preserves its composition without change within 100-130°, and changes at >600° into stable U_3O_8, which is a more convenient weight form. U (+6) can also be quantitatively precipitated within broader limits of pH (4-9) and in the presence of small quantities of CO_3^{-2}. By the addition of a small excess of an 0.1 M solution of the ammonium salt of ethylenediaminetetraacetic acid (EDTA), or a complexon* of EDTA, it is possible to increase to a considerable de-

* /major complex-forming agent/

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Country : CZECHOSLOVAKIA E
Category : Analytical Chemistry. Analysis of Inorganic Substances
Jo. Jour : Ref Zhur - Khim., No 5, 1959, No. 15085

Author :
Institut. :
Title :

Orig Pub. :

Abstract : gree the selectivity of precipitation of UO_2^{+2}; under these conditions, precipitation of Ag^{+}, Hg^{+2}, Pb^{+2}, Bi^{+3}, Cu^{+2}, Cd^{+2}, Mn^{+2}, Zn^{+2}, Co^{+2}, Ni^{+2}, Ca^{+2}, Sr^{+2} and Mg^{+2} does not occur. Fe^{+3}, Cr^{+3}, Th^{+4} and Ce^{+4}, as well as small quantities of Ti^{+4} and Zr^{+4} do not hinder the determination of U. The influence of Sb^{+3}, Sn^{+4}, Al^{+3}, Ta^{+5} and Nb^{+5} is being masked by the

Cont'd

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Country : CZECHOSLOVAKIA

Category : Analytical Chemistry. Analysis of Inorganic Substances

E

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15085

Author :

Institut. :

Title :

Orig Pub. :

Abstract Cont'd : addition of 3-5 g. of tartaric acid before the neutralization of the solution and precipitation of U. Great quantities of Ti^{+4} and Zr^{+4} must be removed by precipitation with the aid of C in a medium of 10% H_2SO_4, and Be - by precipitation with ammonia in the presence of oxalic acid. Even the presence of large quantities of Cl^-, SO_4^{-2}, NO_3^-, CrO_4^{-2}, MoO_4^{-2}, WO_4^{-2}, acetate, citrate and oxalate anions, as

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Country : CZECHOSLOVAKIA

Category : Analytical Chemistry. Analysis of Inorganic Substances

Abs. Jour : Ref Zhur - Khim., No 9, 1959, No. 15085

Author :

Institut. :

Title :

Orig Pub. :

Abstract Cont'd : well as phosphate, arsenate and vanadate anions, does not hinder the determination of U if the precipitation occurs immediately after neutralization of the solution with ammonia; the presence of an excess of fluoride and carbonate does not hinder it. For the determination of U in pitchblende ores and concentrates, a sample of finely-pulverized ore (0.1-1.0 g.) is boiled with 20 ml. of concentrated HNO_3, 10 ml. of concentrated H_2SO_4 are added, evapo-

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E - 20

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Country : CZECHOSLOVAKIA E
Category : Analytical Chemistry. Analysis of Inorganic Substances
Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15085

Author :
Institut. :
Title :

Orig. Pub. :

Abstract Contid : rated in a sand bath, diluted with water, and the precipitate of SiO_2, $CaSO_4$ or $PbSO_4$ is filtered off. To the chilled filtrate, EDTA solution is added first, and then a clear solution which has been adjusted with ammonia to pH 7-8; the precipitation of U is then effected with an excess of C. The filtered off UC is washed with 0.2% C with the addition of EDTA, dried, roasted at 800-1,000° and suspended in the form of U_3O_8. For three samples of uranium ore, the re-

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Country : CZECHOSLOVAKIA

Category : Analytical Chemistry. Analysis of Inorganic Substances

E

Abs. Jour : Ref Zhur - Khim., No 5, 1959, No. 15085

Author :

Institut. :

Title :

Orig Pub. :

Abstract Cont'd : sults obtained by this method differed from those obtained through precipitation of U by means of C after reduction of U to U (+4) only by 0.2%, even in the most unfavorable case. In the absence of Ti and Zr, the duration of determination is 60-90 minutes.-- J. Vanecek

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

CZECH/34-59-1-11/28

AUTHORS: Večeřa, Zdeněk, RNDr, Bieber, Boleslav, Ing.Dr.

TITLE: Photometric Determination of Small P Contents in Aluminium Alloys (Fotometrické stanovení malých obsahů fosforu ve slitinách hliníku)

PERIODICAL: Hutnické Listy, 1959, Nr 1, pp 56-58 (Czechoslovakia)

ABSTRACT: A method was evolved for determining the P content which is present as combined aluminium phosphide in Al alloys with an accuracy of ± 0.00002% P in the case of contents of 10 000ths to 100 000ths of 1% in a charge of 1 g. The method is reliable and does not impose any special demands as regards instrument and chemicals. The determination takes 1.5 to 2 hrs and is not disturbed by elements which are usually present in Al alloys. There are 3 figures, 3 tables and 23 references, 5 of which are Czech, 3 English, 1 Soviet, 7 German, 6 French, 1 Polish.

ASSOCIATION: Státní výzkumný ústav materiálu a technologie, slevárenský výzkum, Brno (State Research Institute for Materials and Technology, Foundry Research, Brno)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

CZECH/34-59-8-10/16

AUTHORS: Bieber, Boleslav, Engineer Doctor, Vejmělek, Bohuš, Engineer and Večeřa, Zdeněk, Doctor of Natural Sciences

TITLE: Determination of Carbon and Sulphur in Steel and Cast Iron by Means of High-frequency Combustion

PERIODICAL: Hutnické listy, 1959, Nr 8, pp 700 - 706

ABSTRACT: Experiments are described for determining the carbon and sulphur contents by means of a high-frequency generator designed for ascertaining the carbon content by burning in an oxygen stream, built by Siemens of Austria. Figure 2 shows the schematic diagram of the electrical circuit of the used HF generator. Figures 3 and 4 show photographs of the equipment and of the combustion tube. It was found that determination of carbon and sulphur contents in specimens of commercially pure iron by high-frequency burning in an oxygen stream has two considerable advantages compared with using a Mars silite furnace, namely, the equipment is instantaneously ready for carrying out experiments and a very considerable saving of electricity is achieved. The specimen, in the form of fine chips, is charged into a combustion "boat" which is

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Determination of Carbon and Sulphur in Steel and Cast Iron by Means of High-frequency Combustion

CZECH/34-59-8-10/16

placed into a protective tube inside a horizontal quartz tube in the heating coil of the instrument. The specimen is heated as a result of the hysteresis and eddy-current losses produced by the high-frequency field and then ignites and burns off in the oxygen stream. It is assumed that during combustion the temperature reaches about 1 000 °C. Tin or rose metal proved suitable as slag-forming additions. During the process of combustion, the combustion boat and the protective tube have to withstand a considerable heat shock and of the tested materials, fireclay proved suitable. For determining the carbon content in the combustion products after high-frequency heating in an oxygen stream, the gas-metering method according to ČSN (Czech Standard Specification) 42 0510A and the weight method, according to ČSN 42 0510B proved suitable; the obtained results are in good agreement with those obtained by the current method based on using a Mars furnace. For determining the sulphur content, the iodometric method, according to ČSN 42 0514 A, was tried out;

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CZECH/34-59-8-10/16

Determination of Carbon and Sulphur in Steel and Cast Iron by Means of High-frequency Combustion

the results were somewhat higher than those obtained under ordinary conditions of combustion in a Mars furnace at 1 350 °C and this is attributed to the higher combustion temperature at high frequency which does not leave behind sulphur residues in the molten and burnt substance. The advantages of the high-frequency combustion will manifest themselves particularly in cases in which the carbon and sulphur contents have to be determined only at irregular intervals. The cost of the high-frequency equipment is considerably higher than that of a Mars furnace. Furthermore, it necessitates using fireclay combustion "boats" and protective tubes. There are 7 figures, 5 tables and 18 references, of which 9 are Czech, 8 English, and 1 Swedish.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Determination of Carbon and Sulphur in Steel and Cast Iron by Means of High-frequency Combustion

CZECH/34-59-8-10/16

ASSOCIATION: Státni výzkumný ústav materiálu a technologie, slévárenský výzkum, Brno (State Research Institute for Materials and Technology, Foundry Research, Brno)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.

CZECHOSLOVAKIA/Analytical Chemistry - Inorganic Analysis. E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71246

Author : Vecera, Zdenek; Bieber, Boleslav

Inst : -

Title : Photometric Determination of Small Amounts of Phosphorus in Aluminum Alloys

Orig Pub : Hutn. listy, 1959, 14, No 1, 56-58

Abstract : For the determination of P in Al alloys the formation of the blue form of phosphomolybdic heteropolyacid was applied. For the construction of the calibration curve up to 0.002% P the standard $(NH_4)_2HPO_4$ solution (2.1315 g of salt per 1 liter; 1 ml of this solution contains 0.5 mg P) is diluted 100 times with water; to 0.8 - 4.0 ml of the resulting solution, diluted with water to 40 ml, 2 ml 1 N.H_2SO_4 and 5 ml ammonium molybdate solution (made by mixing 100 ml 5% ammonium molybdate solution with 100 ml 10 N.H_2SO_4) are added

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CZECHOSLOVAKIA/Analytical Chemistry - Inorganic Analysis. E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71246

and the mixture extracted with butanol (45-50 ml), the extract is washed 2 times with 40 ml portions 0.5 N.H_2SO_4, shaken with 40 ml 1 N H_2SO_4 and 0.5 ml $SnCl_2$ solution, allowed to stand for 2-3 minutes; the organic layer is diluted with butanol to 100 ml, allowed to stand for 20 minutes, and its absorbancy m measured with a photometer using 5 cm cells at 720 mμ. For the construction of the calibration curve up to 0.0005% P the standard $(NH_4)_2HPO_4$ solution is diluted 1000 times with water; 1.0-10.0 ml of the resulting solution is diluted with water to 40 ml, shaken with 2 ml 1 N.H_2SO_4, 5 ml ammonium molybdate solution and 30 ml butanol, the organic layer is washed 2 times with 30 ml portions 0.5 N H_2SO_4, shaken with 30 ml 1 N.H_2SO_4, and 0.5 ml $SnCl_2$ solution, and its absorbancy measured. In the determination of P the sample (1 g) is mixed with 5 ml water,

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CZECHOSLOVAKIA/Analytical Chemistry - Inorganic Analysis. E

Abs Jour : Ref Zhur Khimiya, No 20, 1959, 71246

placed into the apparatus, proposed by the authors; CO_2 is passed for 10-15 minutes (to remove O_2), 25 ml HCl (1:1) is added, and the gas liberated is absorbed in bromine water (35-40 ml). Towards the end of the dissolution of the sample CO_2 is passed for another 10-15 minutes, the resulting solution is boiled to remove excess Br_2, a small crystal of Na_2SO_3 is added, the solution is boiled for another 3 minutes, and the analysis is continued as for the construction of the calibration curves. The duration of the determination is 1.5-2 hours; the error is ± 0.00002%, Si does not interfere. -- N. Turkevich

Card 3/3

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

[illegible] : [illegible] E-2

CATEGORY : Analytical Chemistry--Analysis of inorganic substances

ABS. JOUR. : RZKhim., No. 51960, No. 17514

AUTHOR : Weiss, J. and Bieber, B.

[illegible] : Not given

[illegible] : The Determination of Small Amounts of Sodium in Silumins with a Flame Photometer

ORIG. PUB. : Hutnicke Listy, 14, No 3, 247-248 (1959)

ABSTRACT : Using a Zeiss Model III flame photometer (oxyacetylene flame, Na 59 filter), the authors have developed a method for the determination of 0.002-0.2% Na in silumins. 0.5-2.0 gms of silumin (depending on the assumed Na content) is dissolved in 20 ml HCl (1 : 1), the solution is diluted with doubly distilled water to 100 ml, and analyzed photometrically. The calibration curve is constructed using solutions containing 0-10 Na/ml and 4.3-17.2 gms of silumin $AlCl_3 \cdot 6H_2O$ [sic] per

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

COUNTRY : Czechoslovakia

CATEGORY :

ABS. JOUR. : RZKhim., No. 5 1960, No. 17514

AUTHOR :

INST. :

TITLE :

ORIG. PUB. :

ABSTRACT : 100 ml solution. The $AlCl_3 \cdot 6H_2O$ is subjected to a preliminary purification from Na by recrystallization from aqueous solution which is saturated with gaseous HCl; the purified $AlCl_3 \cdot 6H_2O$ solution is checked for the presence of Na by the flame photometric method.

N. Poluektov

CARD: 2/2

102

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

Distr: 4E2c

Determination of uranium with cupferron in the presence of ammonium ethylenediaminotetraacetate. B. Bieber and Z. Vecera. *Collection Czechoslov. Chem. Commun.* 24, 1074–9(1959).—See *C.A.* 53, 1906c. M. Hudlicky

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

S/137/62/000/011/035/045
A006/A101

AUTHORS: Bieber, Boleslav, Klaban, Jiří, Václavinek, Jiří, Večeřa, Zdeněk

TITLE: A method of protecting the surfaces of molten iron alloys against oxidation

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 120, abstract 11I787 P (Czechosl. Patent no. 99138 of March 15, 1961)

TEXT: The method of protecting molten Fe-alloy surfaces against oxidation consists in that low-melting B and (or) P compounds are introduced into the melt, and form on its surface a protective cover in which air-O_2 is dissolved. Chemically neutral, low-melting substances, such as NaCl or $CaCl_2$, may be added to the compounds to be introduced in amounts assuring a $> 4\%$ content of B or P compounds in the mixture. An approximate composition of the mixture is (in %) B_2O_3 20, NaCl or CaCl 80.

V. Levinson

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, Boleslaw; VECERA, Zdenek

Complexometric simultaneous determination of calcium and magnesium. Chem anal 6 no.1:17-22 '61. (EEAI 10:7)

1. State Research Laboratory of Raw Material and Technology, Brno, Czechoslowakia.

(Complex compounds) (Calcium) (Magnesium)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.; VECERA, Z.

Separation of calcium and magnesium in chelatometric determination.
Coll Cz chem 26 no.1:59-66 Ja '61. (EEAI 10:9)

1. Staatliches Forschungsinstitut fur Material und Technologie, Brno.

(Calcium) (Magnesium) (Chelatometry)

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, B.; VECERA, Z.

Complesometric titrations Chelatometry). Part 50: Determination of titanium in presence of hydrogen peroxide by means of xylenol orange. Coll Cz Chem 26 no.8:2081-2084 '61.

1. Staatliches Forschungsinstitut fur Material and Technologie, Brno.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

SVEHLA, Radoslav, inz.; BIEBER, Boleslav, inz., dr.

A simple time switch for spectrographs. Hut listy 17 no.4:291-292 Ap '62.

1. Statni vyzkumny ustav materialu a technologie, slevarensky vyzkum, Brno.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

VECERA, Zdenek, RNDr.; BIEBER, Boleslav, inz., dr.

Photometric determination of small quanities of bismuth in technical iron. Hut listy 16 no.9:667-669 S '61.

1. Statni vyzkumny ustav materialu a technologie, slevarensky vyzkum, Brno.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

VEJERA, Zdenek; BIEBER, Boleslav

Photometric determination of small quantities of antimony in cast iron. Slevarenstvi 11 no.7:272-274 Jl '63.

1. Statni vyzkumny ustav materialu a technologie, Brno.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, Boleslav, dr. inz. CSc.; VECERA, Zdenek, RNDr.

Use of the FES-1 photoelectric stylometer in metal analysis.
Hut listy 19 no.10:732-735 O '64.

1. State Research Institute of Materials and Technology, Welding Research, Brno.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBER, Boleslav, dr. inz. CSc.; VEVERA, Vaclav, RNDr.

Use of the FES-1 photoelectric stylometer in metal analyses. Pt. 2. Hut listy 19 no.12:882-884 D '64.

1. Foundry Research of the State Research Institute of Materials and Technology, Brno.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

L 3761-66 EWP(t)/EWP(b) IJP(c) JD

ACC NR: AP5027866

CZ/0034/65/000/001/0050/0052

AUTHOR: Bieber, Boleslav (Engineer, Doctor, Candidate of sciences); Vecera, Zdenek (Doctor of natural sciences)

TITLE: Use of the photoelectric stylometer FES-1 in metal analysis. Part III. Determination of Cr, Mn and Si in cast materials

36
35
B

SOURCE: Hutnicke listy, no. 1, 1965, 50-52

TOPIC TAGS: metal casting, metal analysis, photoelectric detection equipment, chromium, manganese, silicon

ABSTRACT: Method of casting a suitable sample is described. As opposing electrodes rods of pure Cu 7 mm diameter are used. Cr determination is exact, because of the high intensity of spectral lines; lines Cr 5204.52 and 5206.04 Å are used. Samples used are 20x20x40 mm and are compared with a known standard. Calibration of such a standard is described. Complete analysis takes 5 minutes. For Mn analysis sample of the same size as described and line 4823.52 Å are used; calibration curve for Mn determination is shown. Determination of Si is not easy. The best suited line is 3905.53 Å excited by an arc of 6 A, and the sample is

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

L 3761-66

ACC NR: AP5027866

compared to a standard ferrosilicon. Calibrating curves using samples 20x20x40 mm are shown. Total time required for analysis is 7 mins, accuracy equals gravimetric methods. Orig. art. has: 6 tables, 1 figure.

ASSOCIATION: Statni vyzkumny ustav materialu a technologie, slevarensky vyzkum, Brno (Foundry Section, State Research Institute of Materials Technology)

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, EC

NR REF SOV: 002 OTHER: 001 JPRS

Card 2/2

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

L 34434-66 EWP(k)/EWP(h)/EWP(l)/EWP(v)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6026202 SOURCE CODE: CZ/0034/65/000/011/0808/0811

AUTHOR: Bieber, Boleslav (Engineer; Doctor; Candidate of sciences); Vecera, Zdenek (Doctor of natural sciences)

ORG: State Research Institute of Materials--Foundry Research, Brno (Statni vyzkumny ustav materialu, slevarensky vyzkum)

TITLE: Use of the FES-1 photoelectric stylometer in analyses of metals. IV. Determination of aluminum, molybdenum, vanadium, titanium and copper in cast iron

SOURCE: Hutnicke listy, no. 11, 1965, 808-811

TOPIC TAGS: cast iron, photoelectric cell, metal chemical analysis

ABSTRACT: The article gives details of a method used to determine aluminum, molybdenum, vanadium, titanium and copper in cast irons and fused specimens of cast iron with the FES-1 stylometer. The results are presented in tabular form and are discussed. Orig. art. has: 10 tables. [JPRS: 33,732]

SUB CODE: 11 / SUBM DATE: none / ORIG REF: 002

Card 1/1

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

ACC NR: AP6026072 SOURCE CODE: CZ/0034/65/000/012/0888/0889

AUTHOR: Vecera, Zdenek (Doctor of natural sciences); Bieber, Boleslav (Engineer; Doctor; Candidate of sciences)

ORG: Foundry Research Department, State Research Institute for Construction Materials, Brno (Statni vyzkumny ustav materialu, Slovarensky vyzkum)

TITLE: Photometric determination of small amounts of lead in cast iron

SOURCE: Hutnicke listy, no. 12, 1965, 888-889

TOPIC TAGS: cast iron, photometric analysis, lead, chemical reduction, colorimetric analysis, quantitative analysis, metal purification

ABSTRACT: The sample is dissolved in hydrochloric acid and the iron removed by extraction with methylisobutyl ketone and isoamyl acetate. Hydrochloric acid is evaporated, tartrate and cyanide are added, and lead is reduced by ascorbic acid in an ammoniacal medium. After the addition of cupral, lead is extracted by absorbing it in carbon tetrachloride. Addition of copper sulfate produces a copper salt of cupral. The resulting brown coloring is measured colorimetrically. The accuracy of the determination is ± 0.0002% when the Pb content is in thousandths of a %, and ± 0.001% when the lead content is in the hundredths of a %. The amount weighed out is 1 g. Pb can be determined even in the presence of some of the alloying metals. Orig. art. has: 3 tables. [JPRS: 34,272]

SUB CODE: 11, 07, 20 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 010

Card 1/1

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

L 38593-66 EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c) JD/WW/JG

ACC NR: AP6027705 SOURCE CODE: CZ/0034/66/000/001/0050/0052

AUTHOR: Blebor, Boleslav (Engineer; Doctor; Candidate of sciences); Drexlerova, Jindra

ORG: State Research Institute for Materials, Research in Welding, Brno (Statni vyzkumny ustav materialu, Slevarensky vyzkum)

TITLE: Spectrophotometric analysis of metals using the instrument stilometer FES-1. Determination of small amounts of Cr, Ti, Al, and Mg in the production of ductile cast iron

SOURCE: Hutnicke listy, no. 1, 1966, 50-52

TOPIC TAGS: metal analysis, spectrophotometric analysis, cast iron, line spectrum, spectrum analyzer/FES-1 spectrum analyzer

ABSTRACT: The authors investigated determination of small amounts of metals that could be found in the manufacture of ductile cast iron. Details of the spectrum lines that are used in the analysis of individual metals are given. Calibration curves for the instrument are discussed. Orig. art. has: 8 tables. [JPRS: 34,519]

SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 001

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APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEBL, KONSTANTIN.

GEOGRAPHY & GEOLOGY

BIEBL, KONSTANTIN. Cesta na Javu. Praha, Ceskoslovensky spisovatel. 133 p.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959.
Unclassified

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BIEBOLD, N.

Verralux photometer, p. 82, KEP ES HANGTECHNIKA, (Optikai es Kinotechnikai Tudomanyos Egyesulet) Budapest, Vol. 2, No. 3, June 1956

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 5, No. 11, November 1956

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Biechonski, J.

Biechonski, J. The "Polish Flat" which was not Polish. p. 471.

Vol. 10, no. 15, July 1956
SVET MOTORU
TECHNOLOGY
Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
No. 5

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, FRANCISZEK.

Bieda, Franciszek. - Historia paleontologii w Polsce. Krakow, Nakl. Polskiej Akademii Umiejetnosci; skl. gl. w ksieg. Gebethnera i Wolffa, 1948 37 p. (Polska Akademia Umiejetnosci. Historia nauki polskiej w monografiach, 10) /History of paleontology in Poland. French summary/

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, F.

"Present state of micropaleontology of the Carpathian Flysch," Przeglad Geologiczny, Warszawa, No 3, June 1953, p. 89.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

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BIEDA, F.

"Research on large foraminifers of the Upper Eocene of the Carpathian Mountains."

p. 203 (Rocznik) Vol. 25, no. 3, 1955 (published 1957)
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SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

[illegible], F.

Large foraminifers found in the Carpathian Flysch. p. 268

SO: East European Accessions List (EEAL). LC. Vo. 4 N. 11 Nov. 1955 uncl.

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BIEDA, F.

The fauna of large foraminifera of the Upper Neocene in Slovakia, p. 28. (Geologicky Sbornik, Vol. 8, no. 1, 1957. Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0"

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, F.

Remarks on Janina Sztejn's article "History of Polish Micropaleontology." p. 247

KOSMOS. SERIA B: PRZYRODA NIEOŻYWIONA. (Polskie Towarzystwo Przyrodników im. Kopernika) Warszawa, Poland. Vol. 5, no. 3., 1959.

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960.

Uncl.

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BIEDA, F.

Paleontology and evolution. p. 285.

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Warszawa, Poland.
No. 11, Nov. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

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BIEDA, Franciszek; ZYTKO, Kazimierz

Notes on the stratigraphy of the Magura series in the surroundings of Milowka in the south of Zywiec. Kwartalnik geol 4 no.3:772-786 '60.

1. Katedra Paleontologii Akademii Gorniczo-Hutniczej i Karpacka Stacja Terenowa Instytutu Geologicznego w Warszawie.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, Franciszek

Fiftieth anniversary of the foundation of the Paleontological Laboratory of the Jagiellonia University, Krakow. Rocz geol Krakow 32 no.4:623-628 '62.

1. Katedra Paleontologii, Akademia Gorniczo-Hutnicza, Krakow.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, Franciszek

Foundation of the first geologic station in the Carpathians in 1912. Rocz geol Krakow 32 no.4:629-631 '62.

1. Katedra Paleontologii, Akademia Gorniczo-Hutnicza, Krakow.

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, Franciszek

Seventh level of large Foraminifera in the Flysch of the Polish Carpathians. Rocz geol Krakow 33 no.1/3:188-218 '63.

1. Katedra Paleontologii, Akademia Gorniczo-Hutnicza, Krakow.

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BIEDA, Franciszek

Limestone facies in the Upper Eocene Flusch of the Polish Carpathians. Rocz geol Krakow 32 no.3:399-414 '62

1. Katedra Paleontologii, Akademia Gorniczo-Hutnicza, Krakow .

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BIEDA, Franciszek

Fortieth anniversary of the Polish Geological Society, 1921-1961. Rocz geol Krakow 32 no.1:119-140 '62

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, Franciszek

Roman Kongiel, 1904-1960. Roczn geol Krakow 34 no.4:605-611 '64.

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BIEDA, S.; FOCHEM, K.

Role of roentgenodiagnosis in obstetrics. Ginek. Pol. 33 no.2:153-159 '62.

1. Z I Kliniki Chorob Kobiecych Uniwersytetu w Wiedniu Kierownik Kliniki: prof. dr T. Antoine.

(OBSTETRICS) (RADIOGRAPHY)

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"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205220019-0

BIEDA, S.; FOCHEM, K.

Role of the anterior height of the pelvis in labor prognosis. Ginek. pol. 33 no.6:717-722 '62.

1. Z I Kliniki Chorob Kobiecych Uniwersytetu w Wiedniu Kierownik Kliniki: prof. dr T. Antoine.

(PELVIMETRY)

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