

BELL, B.

Session on the Eurasian area of the International Geophysical Year held in Moscow.

p. 185. (IDOJARAS) Vol. 61, no. 3, May/ June 1957 Budapest, Hungary

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

BELL, B.

"Regional session of the International Geophysical Cooperation held in Moscow." p. 62.

IDOJARAS. (Meteorologiai Intezet ex Magyar Meteorologiai Tarsasag). Budapest, Hungary, Vol. 63, No. 1, Jan./Feb. 1959.

Monthly list of East European Accessions (EFAI), LC, Vol. 8, No. 8, August 1959. Uncla.

BELL, B.

Composite halo phenomenon over Budapest. P. 102.

IDOJARAS. (Meteorologiai Intezet es Magyar Meteorologiai Tarasag) Budapest, Hungary. Vol. 63, No. 2, Mar./Apr. 1959

Monthly List of East European Accessions, (EEAI) LC, Vol. 9, no. 1 Jan. 1960 Uncl.

\$/169/62/000/011/034/077 D228/D307

AUTHOR:

Béll, Béla

TITLE:

Mir pressure and temperature measurements in the

vicinity of a winter thunderstorm

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 11, 1962, 56, abstract 11B325 (Országos meteorol. int. hivatal. kiadv., 21, 1960, 72-81 (Hun.; summary in Ger.))

An aerologic analysis is made of the conditions in which a winter thunderstorm originated in Budapest on January 17, 1955. Kinematic investigation of the sharply expressed field disturbance, connected with the synoptic storm position, showed that mostly increased; b) central, over the continent of Europe to the Carpathians, where the intensity and velocity of centers was almost

Gard 1/2

Air pressure and temperature ...

S/169/62/000/011/034/077 D228/D307

constant; and c) eastern, from the Carpathians to the Urals, where the velocity decreased and the intensity was variable. An aerologic analysis is given (in the form of isopleths) of the air pressure and temperature to a height of 12 km above Budapest on January 15-18, 1955. The origin of the energy of instability of the winter thunderstorm is studied on temperature stratification grounds. It is shown, too, that intensive cooling due to strong instability in the lower troposphere occurred at a height of 4 km for approximately 17 hrs before the passage of a cold front.

Abstracter's note: Complete translation 7

Card 2/2

H/016/60/010/06/06/008 B016/B011

AUTHOR:

Béll, Béla, Doctor, Director

TITLE:

Development of Aerology in Hungary and the "György Marczell"

Aerological Observatory

PERIODICAL: Fizikai Szemle, 1960, Vol. 10, No. 6, pp. 184-189

TEXT: The Aeronautic Committee of the International Meteorological Organization had recommended already in 1909 the construction of an aerological observatory for the exploration of higher atmospheric strata in Hungary. Although the observatory was built only 40 years later, Hungary participated, as from 1913, in the international aerological exploration with measurements by means of balloons and airplanes. György Marczell, after whom the later observatory was named, conducted the measurements. Meteorological measurements made at the same time in higher atmospheric strata gave rise to a new scientific branch, synoptic aerology, whose task it was to explore the flow phenomena influencing aeronautics. For such measurements, the radiosonde was devised by the Soviet researcher Molchanov and the German Duckert in the early 30's.

Card 1/3

Development of Aerology in Hungary and the "György Marczell" Aerological Observatory

H/016/60/010/06/06/008 B016/B011

Systematic radiosonde measurements were begun in Hungary as from 1949. In the time from 1950 to 1954, the National Meteorological Institute established the Aerological Observatory in the 18th District of Budapest, Pestlörinc (Fig. 4). Since 1952, radiosondes have been launched by the observatory, and regular observations of 61imate, solar radiation, and ionospheric measurements have been conducted since 1954. The Climatic Research Department was attached in 1959. The Observatory has a staff of 56, 38 of whom are meteorologists with academic degrees. The Observatory has six departments: radiosonde department, aerological laboratory, radiation-, Latmospheric electricity-, climatic departments, and weather department. The latter consists of a team concerned with weather forecast on a hydrodynamic basis. The Observatory was at this stage of organization and development early in the International Geophysical Year 1957. Beside the organization of the national meteorological program, its tasks include the ever expanding international geophysical cooperation. The meteorological program of the International Geophysical Year aimed at propagating aerological measurements throughout the Earth. The first tasks were those of studying the energy source of atmospheric phenomena, solar radiation, and their changes in the atmosphere, in

Card 2/3

Development of Aerology in Hungary and the "György Marczell" Aerological Observatory

H/016/60/010/06/06/008 B016/B011

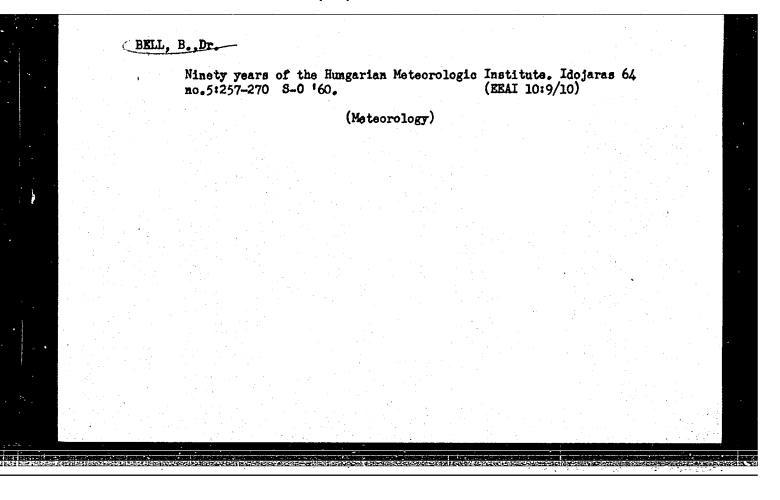
order to study the general circulation on the Earth thoroughly. The system of permanent circulations can be derived from numerous wind measurements on the ground. Beside this, the turbulent air currents must be observed. Aside from international tasks, the eight Hungarian aerological stations and the Meteorological Observatory working out the information have the task of studying the wind-altering actions from the Alps and the Carpathians in order to find hitherto unknown weather characteristics. There are 10 figures.

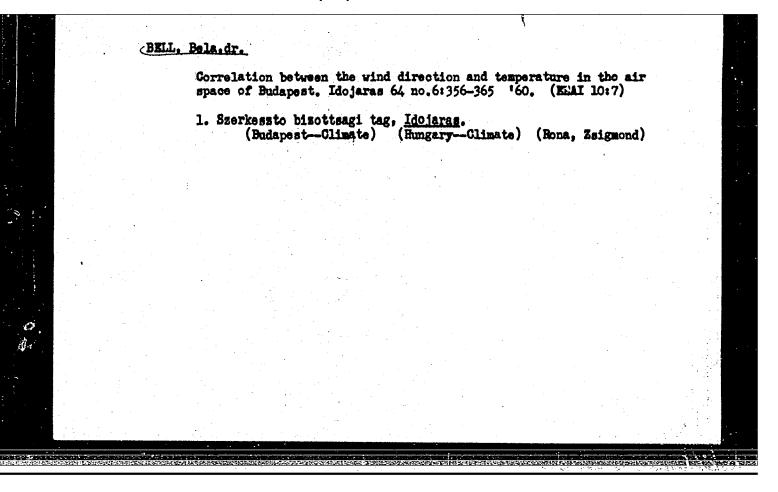
ASSOCIATION: Aerological Observatory

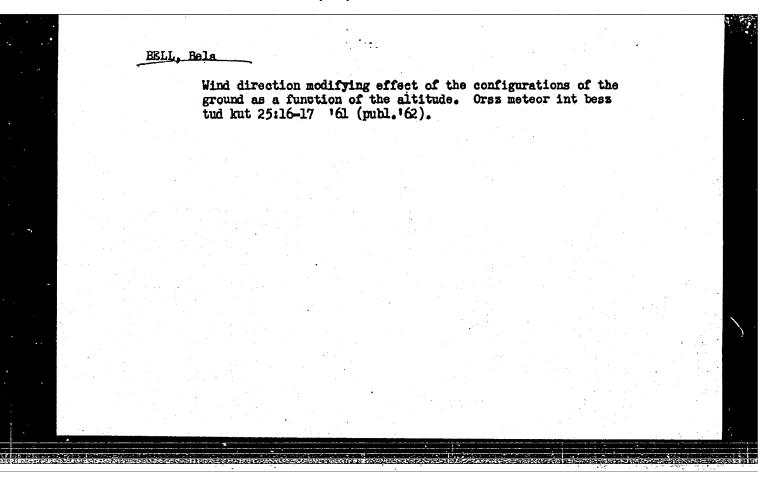
Card 3/3

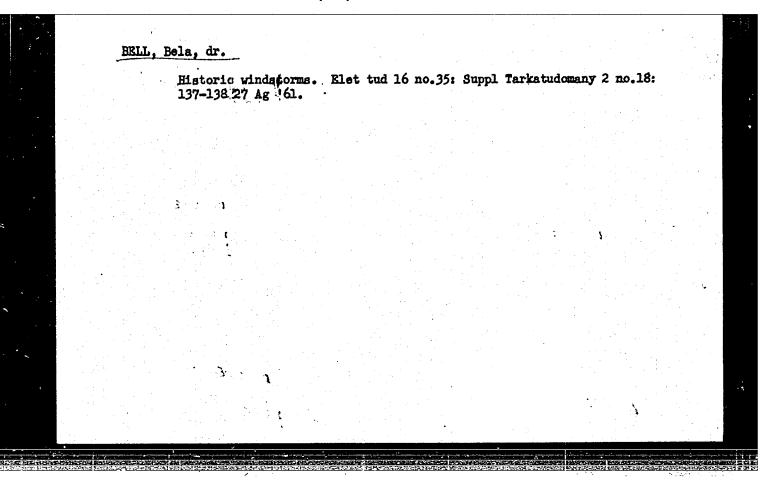
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	Main years	1957-1959.	eteorological res leta techn Hung 3 leteorology)	earch done in Hungary 0 no.1/2:29-52 *60.	during the (KEAI 10:1)	
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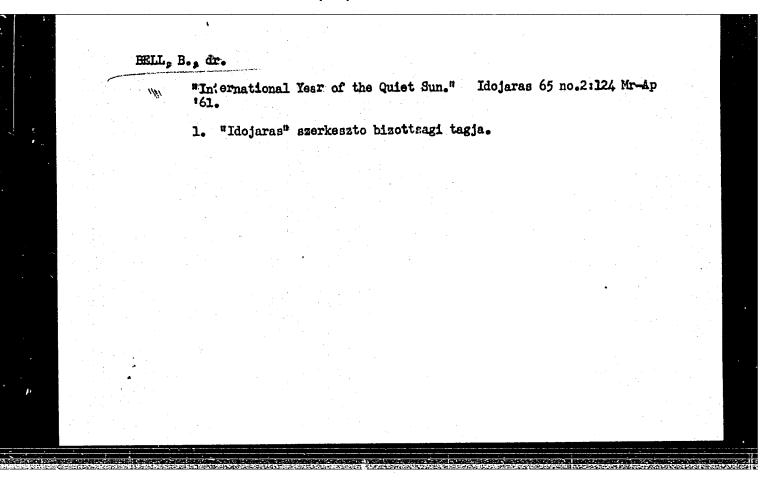
BELL, Bela; TITKOS, Ervin 12th General Assembly of the International Union of Geodesy and Geophysics. Idojaras 64 no.4:250-254 Jl-Ag '60. (EEAI 10:2) 1. Orszagos Meteorologiai Intezet. (International Union of Geodesy and Geophysics) (Hungarians in Finland)





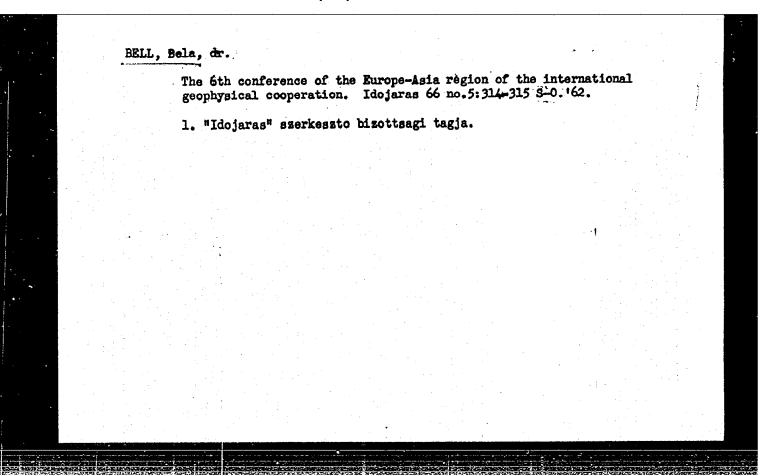






BELL,	Bela, Dr.		
	Measuring wind with captive balloons. Idoja 355-360 D '61.	ras 65 no.6:	
	l. Szerkeszto Bizottsag, "Idojaras."		
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BELL, Bela, dr.

Winds and storms. Elet tud 16 no.39:1239-1242 24 S '61.

1. Orszagos Meteorologiai Intezet Obszervatoriumanak vezetoje.

L 18338-65 EWT(1)/FCC AFETR GW ACCESSION NR: AT4046223

H/0000/63/000/000/0181/0194

AUTHOR: Bell, II.

TITLE: Variation with height of the orographic modification of wind directions

SOURCE: Konferentsiya po meteorologii Karpat. 2d, Budapest, 1961. Vliyaniye Karpat na pogodu (Climatic effects of the Carpathian Mountains); doklady* konferentsii. Budapest, AK, 1963, 181-194

TOPIC TAGS: wind direction, Carpathian wind direction, underlying surface effect

ABSTRACT: Characteristic anomalies noted in a study of the changes in frequencies with which wind directions occur at ground—and upper air—levels are explained as being caused by the topography of the underlying surface. The data used were obtained at the Pestlorine Observatory (Hungary) by means of radiotheodolite and visual observations. The upper air frequency of distribution of wind directions at six Hungarian upper air wind stations are deduced.

ASSOCIATION: none Curd 1/2;

1. Editorial board member, "Idojaras."	Professor H.	Ertel at 60. Idojaras	68 no.2:125	Mr-Ap 164.	
	1. Editorial	board member, "Idojara	8. ¹¹		
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Regional sessions arranged by the German Democratic Republic for some European and Asiatic countries within the framework of the international geophysical cooperation. Idojaras 67 no.1:59-60 Ja-F *63. 1. **Idojaras** szerkeszto bizottsagi tagja.

BELL, Bela, dr.

Advective heat circulation in the free atmosphere over the Carpathian Basin. Idojaras 67 no.2:65-74 Mr-Ap '63.

1. "Idojaras" szerkeszto bizottsagi tagja.

HOHNE, Werner, dr.; BELL, Bela, dr. [translator]

Process of reset in lithium chloride dew-point hygrometer. Idojaras 67 no.4:213-225 J1-Ag 163.

1. Forschungsinstitut für Instrumentenwesen der Akademie für Wissenschaften der D.D.R. [Deutsche Demokratische Republik], Berlin-Friedrichshagen, Stillerzeile 5 (for Hohne).
2. "Idojaras" szerkeszto bizottsagi tagja (for Bell).

BELL, Bela, dr.

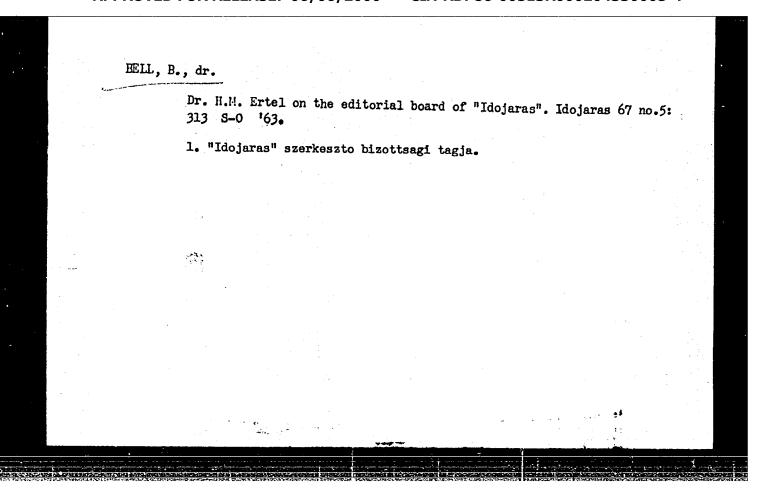
"Frequency of wind directions and wind velocities over Vienna up to 30 km, 1952-1960" by F. Steinhauser, K. Cehak. Reviewed by Bela Bell. Idojaras 67 no.4:250-252 Jl-Ag 63.

1. "Idojaras" szerkeszto bizottsagi tagja.

The 1963 general meeting of the Hungarian Academy of Sciences.

Idojaras 67 no.2:127-128 Mr-Ap '63.

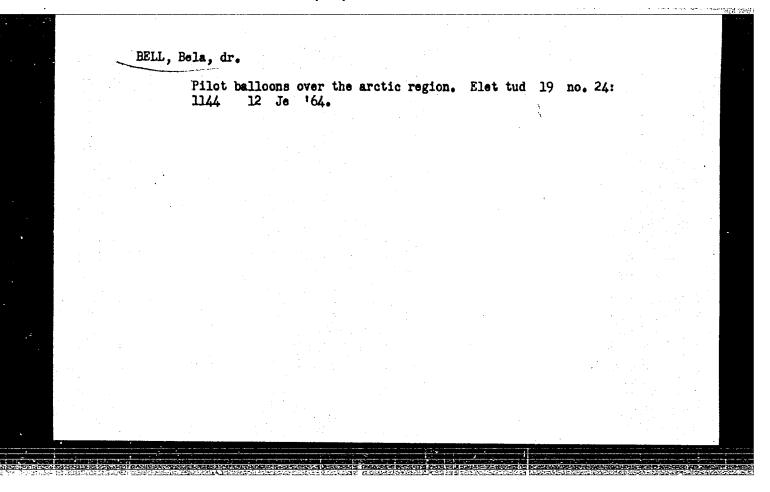
1. "Idojaras" szerkeszto bizottsagi tagja.

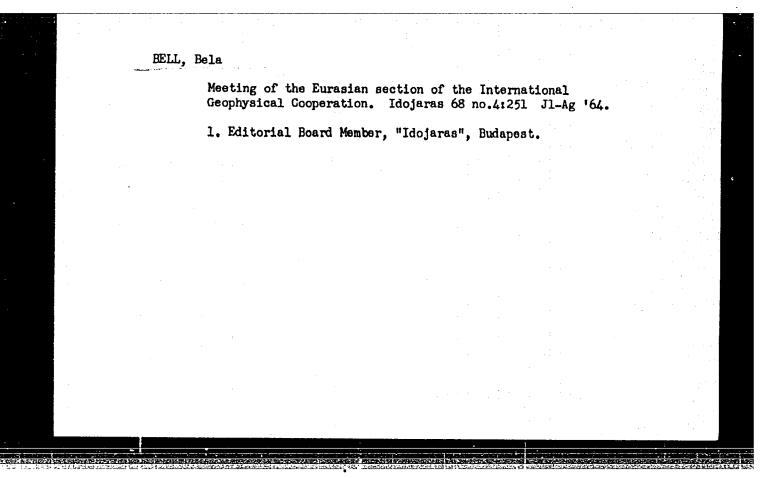


BELL, B., dr.

Committee on Meteorology of the Presidium of the Hungarian Academy of Sciences. Idojaras 67 no.6:383-384 N-r 163.

1. Editorial board member, "Idojaras."





BELL, Bela

An account of the 7th conference of directors of hydrometeorological (meteorological) service of the European socialist countries. Idojaras 68 no.5:306-310 S-0 '64.

Report on the 8th meteorological conference of the Alps. Ibid.:316-317

1. Editorial Board Member, "Idojaras", Budapest.

Work of the Committee on Metagralogy of the Presidium of the Hungarian Academy of Sciences in 1904. Idojaras 68 no.6:378 N.D '64.

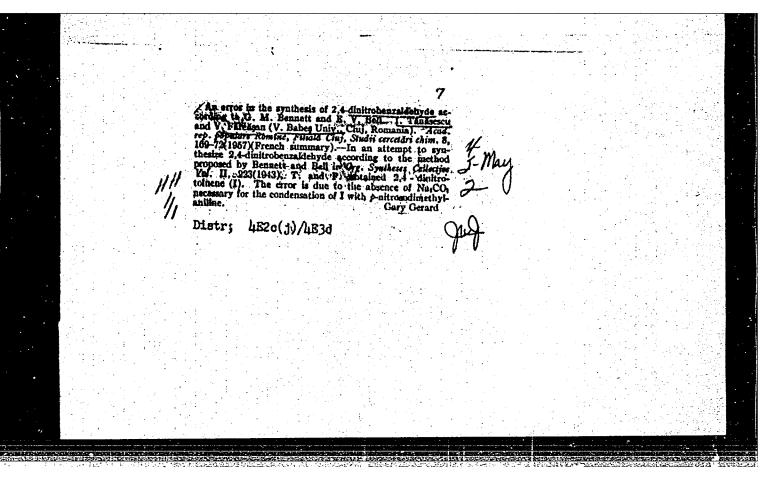
1. Editorial Board Member, "Idojaras", Budapest.

KOPPANY, Gy.; HILLE, Alfred; KAKAS, Jozsef; FUTO, Jozsef; KERI, Menyhert; PECZELY, Gyorgy; KOZMA, Bela; SZAPPANOS, Andras; AMHROZY, Pal; GOTZ, Gusztav; PAPP, Laszlo; EELL, Bela; MARTOS, Andras; BACSO, Nandor; HAJOSY, Ferenc; CSAPODY, Istvan; NAGY, Laszlo, igazgato foorvos; DONASZY, Erno; BORONKAI, Pal; ANTAL, Emanuel; TANCZER, Tibor; OZORAI, Zoltan

The 10th itinerant meeting of the Hungarian Meteorological Society in Sopron. Idojaras 68 no.4:249-250 Jl-Ag '64.

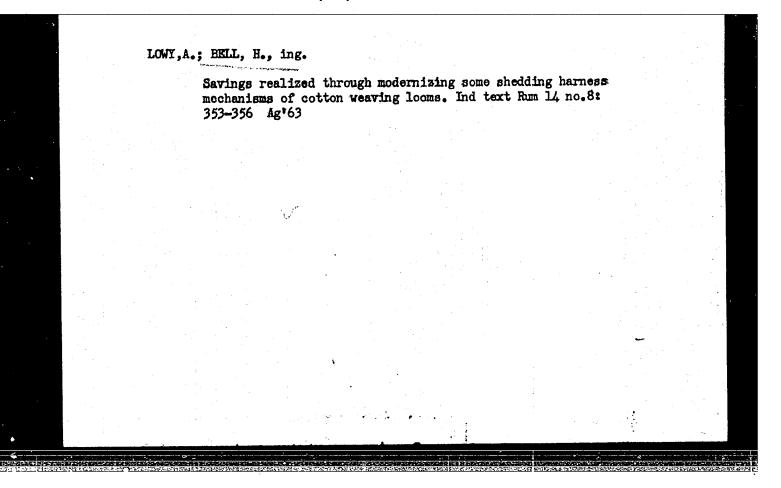
1. President, Hungarian Meteorological Society (for Hille).
2. Editor, "Idojaras" (for Kakas). 3. Editorial Board
Member, "Idojaras", Budapest (for Ambrozy, Bell, Keri,
Ozorai).

L 31367-66 FCC SOURCE CODE: HU/0033/65/069/04-/0198/0212 AP6021120 ACC NRI AUTHOR: Bell. Bels (Budapest) ORG: none TITIE: Inversion of the circulation of the stratosphere over Budapest during the spring SOURCE: Idojaras, v. 69, no. 4-5, 1965, 198-212 TOPIC TAGS: stratosphere, anticyclone, climatic condition, atmospheric circulation ABSTRACT: Extensive data were compiled and investigated to show that the conversion to summer-type circulation begins earlier and proceeds faster if well-developed Aleutian anticyclones move across the stratosphere than under the usual circumstances where such movement does not take place. Under normal circumstances the local pressure differentials between horizontal layers are relatively small and the interactions between the polar vortex and the Aleutian anticyclone are not very pronounced. The course of circulation over Budapest appears to follow a two-year pattern. Orig. art. has: 8 figures and 2 tables. [JPRS] SUB CODE: 04 / SURM DATE: none / ORIG REF: 001 / OTH REF: Card 1/1 W

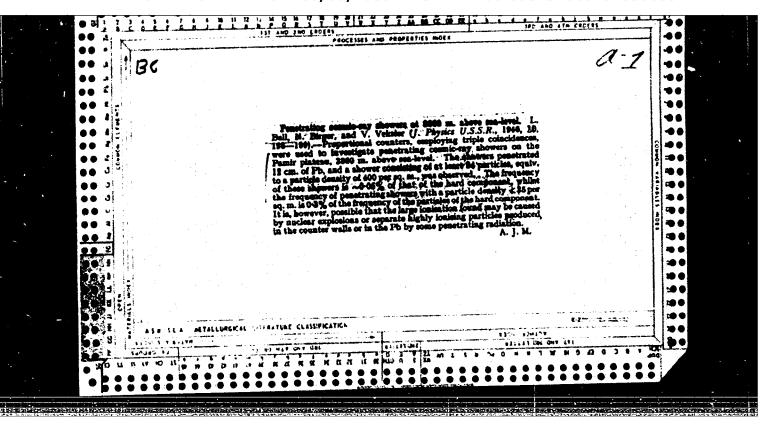


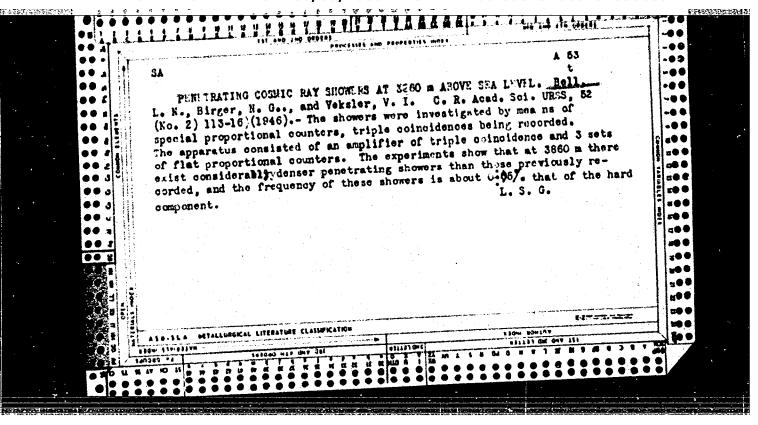
BELLA, Ede, dr., a muszaki tudomanyok kandidatusa; GULYAS, Jozsef, tudómanyos munkatars

Hot gathering experiments with copper at medium deformation rates. Koh lap 97 no.5:228-232 My 64.



PA 54T/1 BELL, L. Jul/Aug 1946 USER/Muclear Physics - Counters, Kleatronio Nuclear Physics - Cosmic Radiation "A Flat Proportional Counter," L. Bell, V. Veksler, Lebedev Phys Inst, Acad Sci USSR, 2 pp "Journal of Physics USSR" Vol I, No 4 Description and investigation of characteristics of a flat proportional counter. Result indicates that it possesses all properties usually required of proportional counters and, in addition, certain advantages resulting from special geometry. Received, 2 Jun 1946. 54771





USSR/Maclear Phys - Counters, Proportional Feb 1947

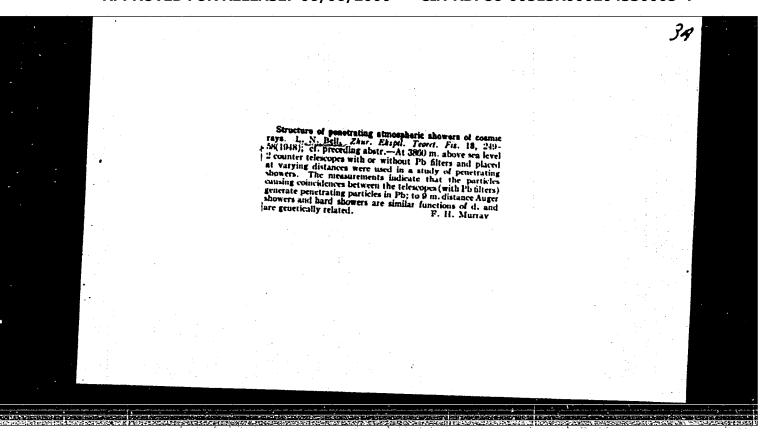
Ruclear Phys - Equipment

"Flat Proportional Counter," L. Bell, V. Veksler, Phys
Inst imeni P. N. Lebedev, Acad Sci USSR, 52 pp

"Zhur Eksper i Teoret Fiz" Vol IVII, No 2 (40-445)

Describes flat proportional counter. Makes study of
its properties and shows that it fulfills all requirements usually demanded. Shows that special attention
must be paid to elimination of formation of negative
ions in the working gas. Article was also published
in English in "Journal of Physics" Vol I, p 386, 1946.

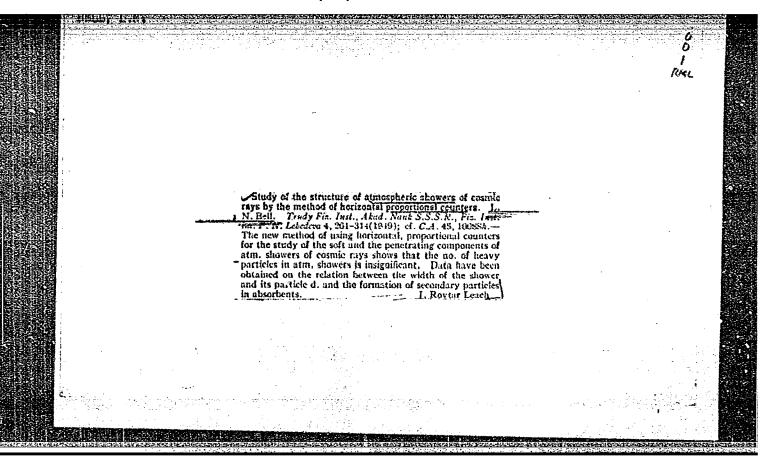
Staff of 1944 Pamik Expedition

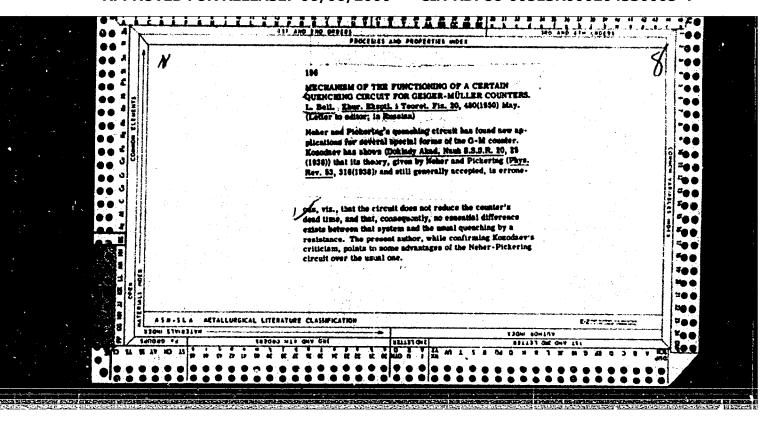


EELL, L.

L. Bell. Ionization methods of investigation of emissions, by V. Veksler, L. Groshev and B. Isaev. 424p. 1949. P. 162 (Bibliography)

SO: Uspekhi Achievements in Physical Sciences, 43, No. 1 (Jan. 1951)





BELL, L.

USSR/Physics - Radioactive Tracers

Aug 51

"Review of George Hevesy's 'Radioactive Indicators,'" L. Bell

"Uspekh Fiz Nauk" Vol XLIV, No 4, pp 649, 650

Reviewed book was translated from the English into Russian by the Foreign Lit Press, Moscow, 1950. In Bell's opinion, Hevesy's book is not of great interest to physicists, but is intended mainly for biologists. Reviewed book supplements Englishlanguage "Isotopic Tracers and Nuclear Radiations," by W. Siri, which is intended mainly for physicists.

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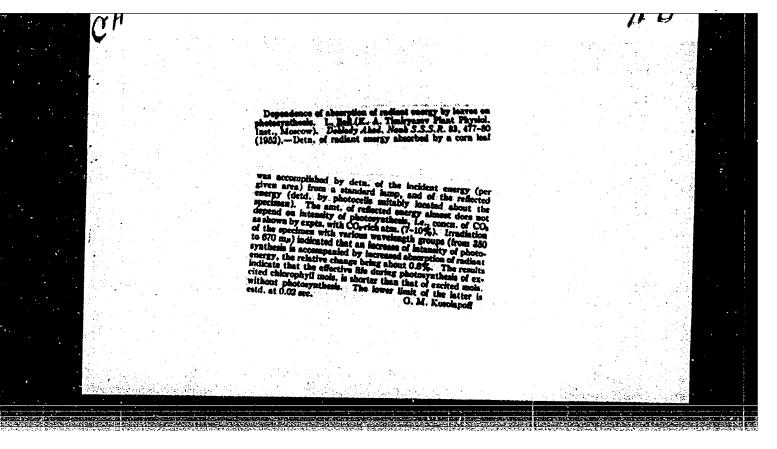
USSR/Nuclear Physics - Protons

"Measurement of the Velocity of Protons According to the Chernkov Effect," L. N. Bell

Priroda, Vol 41, No 11, pp 104-106

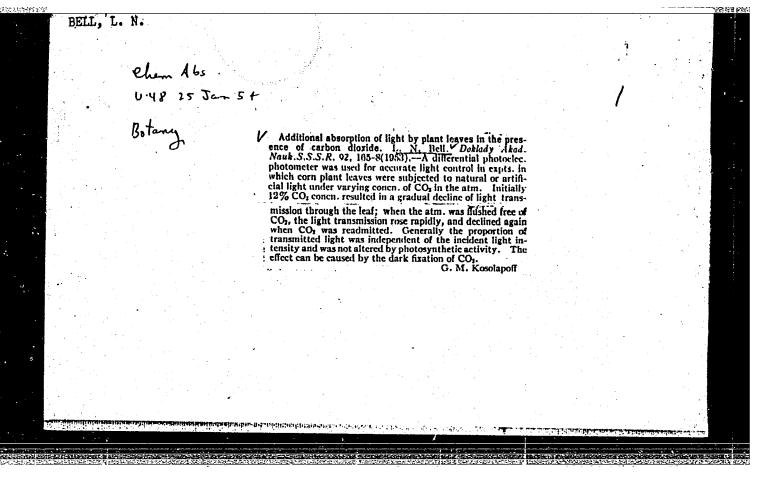
In order to observe Cherenkov's effect, protons have to be accelerated to at least 170 Mev. Such energy was attained only recently (see R. L. Mather: Phys. Rev. v. 84, p. 181 (1951)) and Cherenkov's effect could be observed experimentally. It permitted estimation of proton energy to an accuracy of 0.2 Mev for total energy of 340 Mev.

	BELL, L. N.	
	USSR 600	
	Photosynthesis	
	Quantum yield in photosynthesis. Priroda 41 No. 3, 1952	
9	. Monthly List of Russian Accessions, Library of Congress, July	1955. Unclassified.



"APPROVED FOR RELEASE: 06/06/2000 CIA-RDF

CIA-RDP86-00513R000204330005-4



BELL, C.N. USSR/ Biology - Plant physiology Card 1/1 Pub. 86 - 12/36 Bell, L. N. Authors Title Continuous after-glow of plant leaves Periodical : Priroda 2, 82-84. Feb 1954 The phenomenon of continuous light emission by plant leaves as result Abstract of chemical reactions (chemiluminescence) is explained. It is shown that the chemiluminescence process occurs mostly in the biological system of the plant in which one of the most important biological processes - photosynthesis - takes place. A direct connection between the continuous afterglow of the leaves and the photosynthesis processes was established. One USA reference (1951). Drawing. Acad. of Ses., USSR, The K. A. Timiryazev Institute of Plant Physiology Institution : Submitted

USSEMiscellaneous - Book review

Card 1/1 Pub. 118 - 6/6

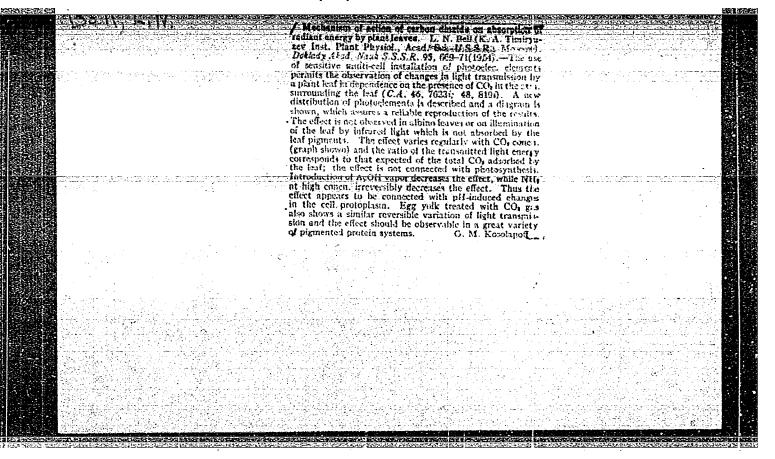
Authors : Bell, Land Serial Markus-Lyova-Pruslin book entitled, "Measurement of the Bookkarey-Kerim-Markus-Lyova-Pruslin book entitled, "Measurement of the Activity Beta and Camma Radiation Sources"

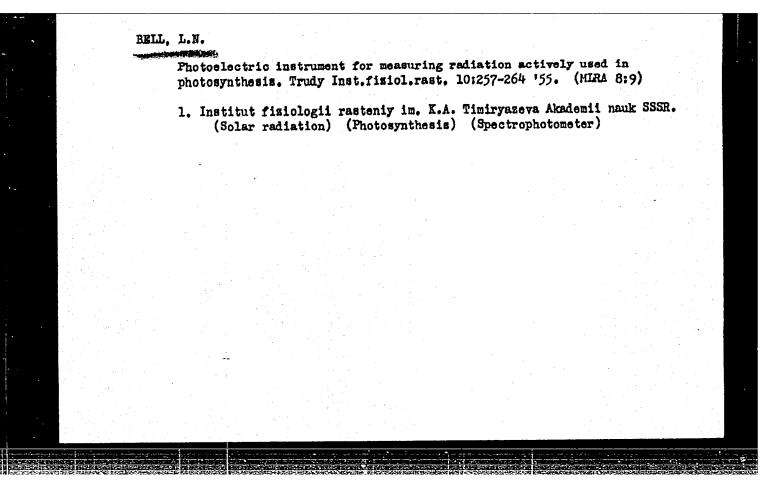
Periodical : Usp. fiz. nauk 54/h, 643-645; Dec 1954

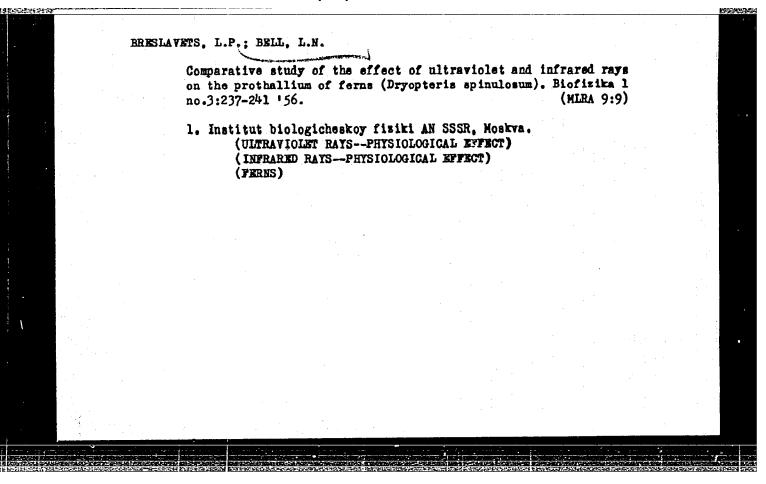
Abstract : A critical review is presented of the book by V. Bookkarey, I. Kerim-Markus, M. Lyova and Ya. Pruslin entitled, "Measurement of the Activity of Bata and Gamma Radiation Sources, " published by the Academy of Sciences, USSR in 1953.

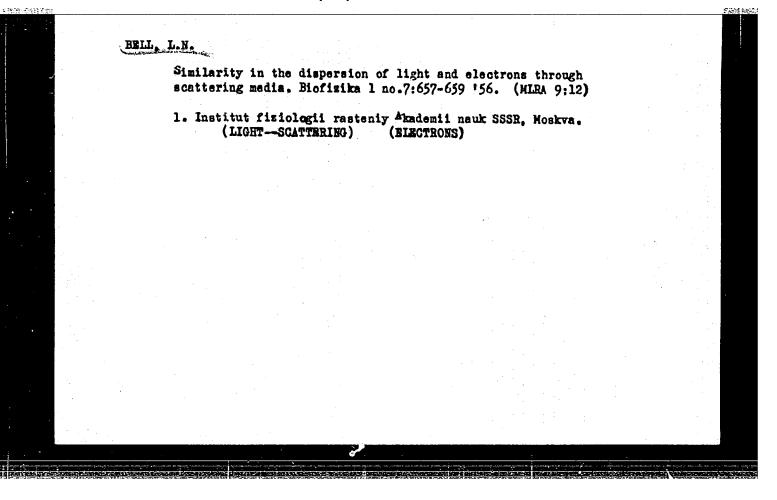
Institution:

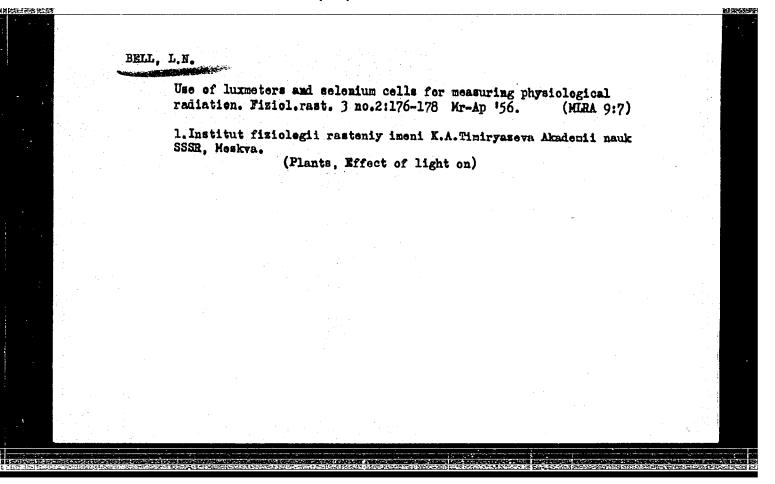
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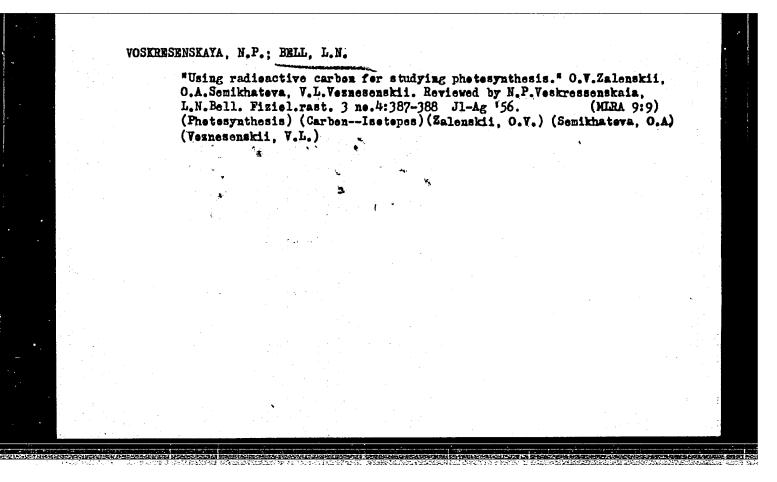












BELL, L.N.

Effect of reversible action of light on the light transmission of leaves. Dokl.AN SSSR 107 no.2:329-332 Nr 156. (MIRA 9:7)

l.Institut fiziologii rasteniy imeni K.A.Timiryazeva Akademii nauk SSSR. Predstavleno akademikom A.N.Tereninyu. (Leaves) (Plants, Effect of light on)

AUTHOR

BELL, L.N.,

Reversible Formation of Several Photoproducts in Plant Leaves.

(Ob obratimom obrazovanii neskol'kikh fotoproduktov v list'yakh

rasteniy - Russian)

"PERIODICAL

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 3, pp 695-698,

(U.S.S.R.) Received 6/1957

Reviewed 7/1957

ABSTRACT

The results of investigations of the kinetics of spectral changes in plant leaves produced by light are described. The analysis of the kinetic curves obtained shows that at least two optically different compounds are formed in the leaves of the plants by the influnce of light. They differ in their spectral as well in their kinetic properties. The essence of the experiment consists of irradiating the leaf with red(>670 m w) "irritating" light and of measuring the change of intensity of the weak ("measuring") light ray passing the leaf, which occurs on this occasion. The existence of two and more photoinduced pro cesses may be the reason for the difficulties which occur on the occasion of the determination of those substances which are responsible for the spectral changes observed. (With 3 illustrations and 1 citation from a Slavis pubmication)

Card 1/2

PA - 3182 Reversible Formation of Several Photoproducts in Plant Leaves.

ASSOCIATION Institute for Physiology of Plants Timiryazev, K.A. of the Academy of Science of the U.S.S.R.

PRESENTED BY Kursanov, A.L., 15.1.1957

SUBMITTED AVAILABLE

14.1.1957.

Card 2/2

Library of Congress.

BELL, L.N. CHMORA, S.N.

Effect of oxygen on spectral variations induced by light in plant leaves. Fiziol.rast. 6 no.1:91-92 Ja-F '59. (MIRA 12:2)

1. K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Plants, Effect of oxygen on) (Leaves-spectra)

Apparatus for quantitative determination of radiation (photointegrator).

Fiziol. rast. 6 no.4:504-507 JP. Ag '59. (MIRA 12:10)

1.K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Botanica: apparatus) (Solar radiation)

With the Effect of Ultraviolet Rays on Photosynthesis in Chlorella."

Paper submitted for the Third Intl. Congress on Photobiology, Copenhagen, 31 July
5 August 1960.

Apparatus for determining the length of exposure, photointegrator.

Analele biol 14 no.2:183-187 Ap-Je '60. (EEAI 9:11)

(LIGHT)

Effect of the dose and wavelength of ultraviolet rays on photosynthesis in Chlorella. Biofizika 6 no. 2:159-164 '61.

(MIRA 14:4)

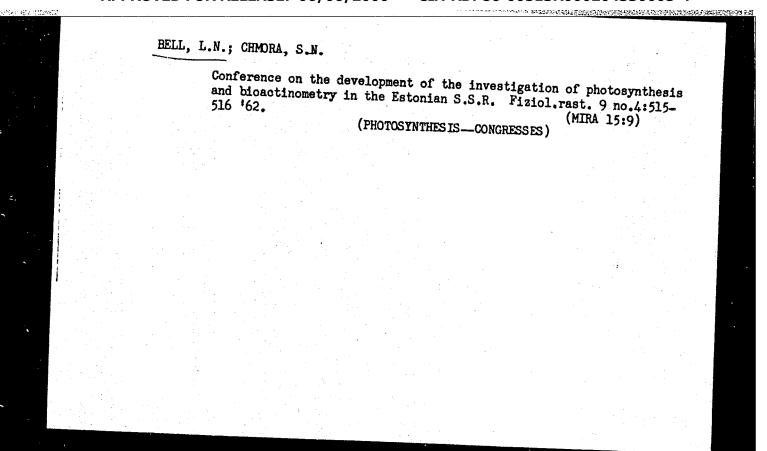
1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva.

(PHOTOSYNTHESIS) (PLANTS, EFFECT OF ULTRAVIOLET RAYS ON)

(ALGAE—CULTURES AND CULTURE MEDIA)

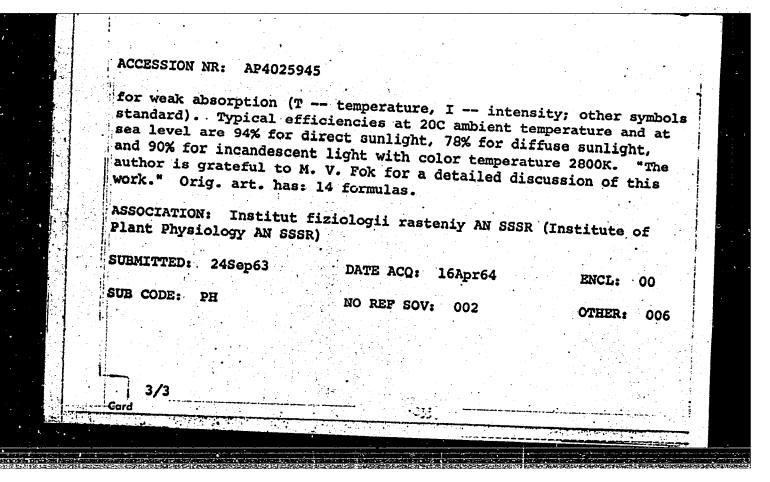
A new approach to the study of photosynthetic efficiency. Fixiol. rast. 8 no.2:161-171 '61. (MIRA 14.3)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow. (Photosynthesia)



ACCESSION NR: AP4025945 S/0056/64/046/003/1117/1122
AUTTOR: Bell, L. N.
TIPLE: Maximum efficiency of conversion of radiant energy into
SOURCE: Zhurnal-eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1117-1122
TOPIC TAGS: radiation, radiant energy, radiant energy conversion, radiant energy conversion, ble processes, theoretical efficiency limit, endoergic photoprocess
ABSTRACT: The maximum energy efficiency, defined as the ratio of the increase in the free energy of an object to the total energy absorbed by it, is calculated by classical irreversible thermodynamics for an arbitrary endoargic photography.
by virtue of the second law of thermodynamics the efficiency is a

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			ACCESSION NR: AP4025945		Marie Salarda	
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			function of the ratio of the radiation of this flux, and 100% efficiency is ensity. General formulas are derived	on flux absorbed to	the entropy	
			ensity. General formulas are derivisted exposed to radiation of arbi-	ed for the efficien	nfinite in-	
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			osition and of varying directivity. o either total or weak absorption y	Specific calculat	ions limited	:
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BELL, L.N.; MERINOVA, G.L.

Energetics of photosynthesis in Chlorella grown under approximately compensatory light intensities. Dokl. AN SSSR 157 no.5:1221-1224 Ag '64. (MIRA 17:9)

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ENG(j)/ENG(r)/ENT(1)/FS(v)-3/ENG(v)/ENG(a)/ENG(c) Pb-4 AMD ACCESSION NR: AP4043845 \$/0020/64/157/005/1221/1224 AUTHOR: Hell, L. N.: Herinova, G. L. TITLE: Photoenergetics of Chlorella at hear-compensational light intensition SOURCE: AN SSSR. Doklady*, v. 157, no. 5, 1964, 1221-1224 TOPIC TAGS: photoenergetics, Kok effect, Chlorella, energetic effectiveness, photosynthesis ABSTRACT: Experiments have been performed for the purpose of determining the mechanisms involved in the sharp drop in efficiency of photosynthesis in certain algae as light intensities are increased. In order to investigate this phenomenon, known as the Eok effect, the authors constructed photocalorimetric equipment equally sensitive at both high and lev light intensities. Chicaella pure noidosa, cultured in a plexicles chamber at 9000 lm while air containing C. 3% CO2 was bubbled through the suspension, was transferred to small silver cups with airtight clear quartz covers through which the culture was exposed to light of various wavelengths. Temperature was measured by means of thermals

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in order to determine the dependence of differential energetic effectiveness on the intensity of light at lew intensity values. The differential energetic effectiveness is indicated by changes in the slope of the temperature curve of different light intensities. A total of 180 experiments was performed with light intensities ranging from 0 to 2500 erg/cm² sec. The following light wavelengths were used: red lights of 698 and 672 mu; blue light of 465 mu; and a blue-green light which ranged from 400 to 580 mu. The Kok effect, sharp breaks in the energetic effectiveness which amount to a change of more than 3° in the slope of the temperature curve, was observed during increase in light intensity in 57 of the 180 cases. The effect was observed 41 times with blue light (465 mu), 11 times with blue-green light (400—580 mu), and only 5 times with the two red lights (698 and 672 mu). In about 10% of the cases a reverse change was observed; there was an increase in energetic effectiveness with increase of light intensity. It was found that if a culture which had demonstrated a normal Kok effect is kept in the dark for several hours, no Kok effect is observed upon subsequent exposure to increasing light intensities. However, the slope of the temperature curve of this reaction is found to be identical to the slope of the original curve (before the culture was exposed to derkness) beyond the point of the

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appearance of the Kok effect. Therefore, it is possible to conclude that the Kok effect depends on increased energetic effectiveness at low light intensities and not on the lowering of effectiveness after passing the point of change of the slope. An attempt at identification of conditions which assure the appearance of the Kok effect led to the conclusion that the effect depends on some special condition of the cells and that it manifests itself only if the light intensities are just sufficient to compensate for respiration. Consequently, the Kok effect is not only a gas-exchange but also an energetic phenomenon. Orig. art. has:

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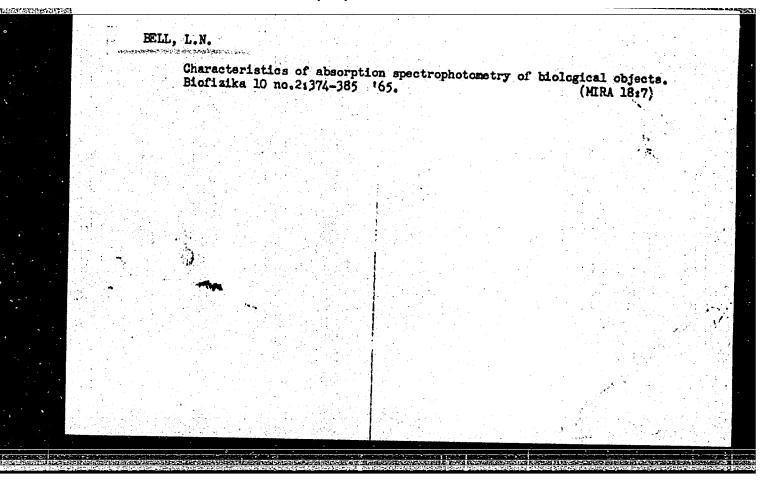
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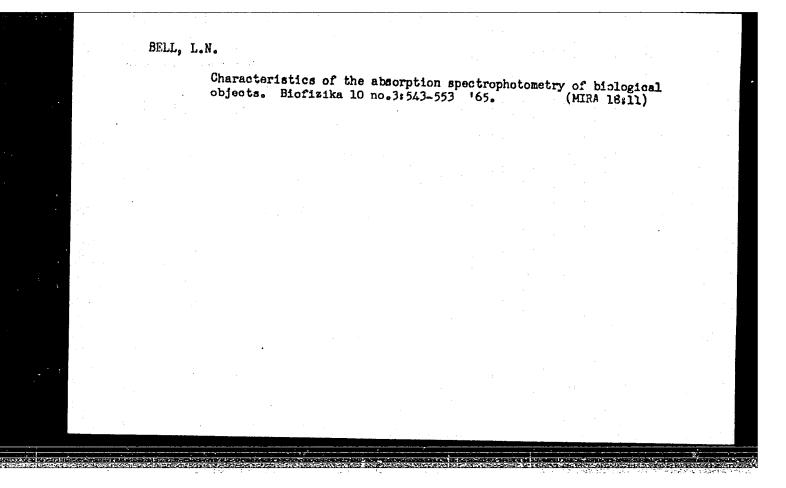
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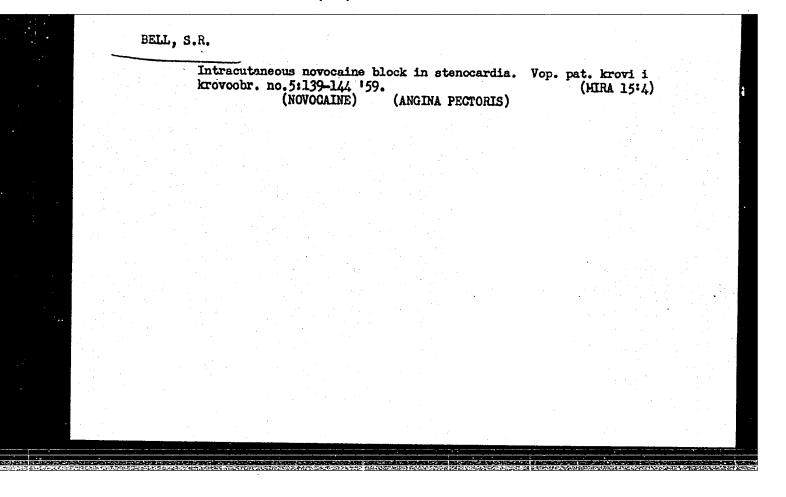
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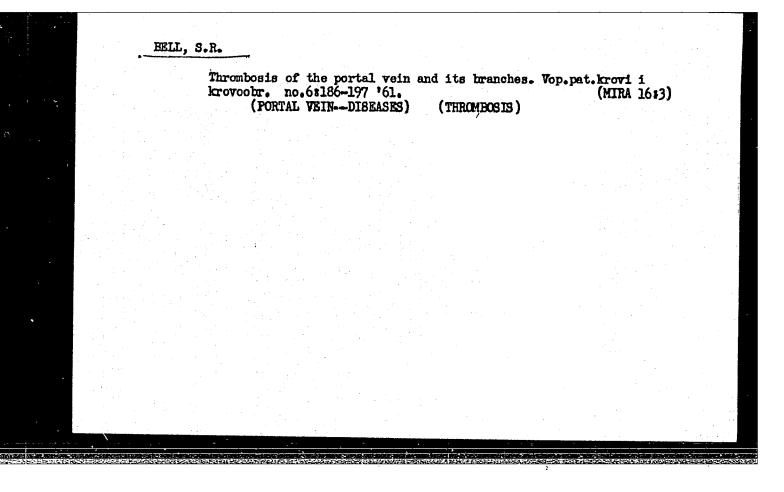
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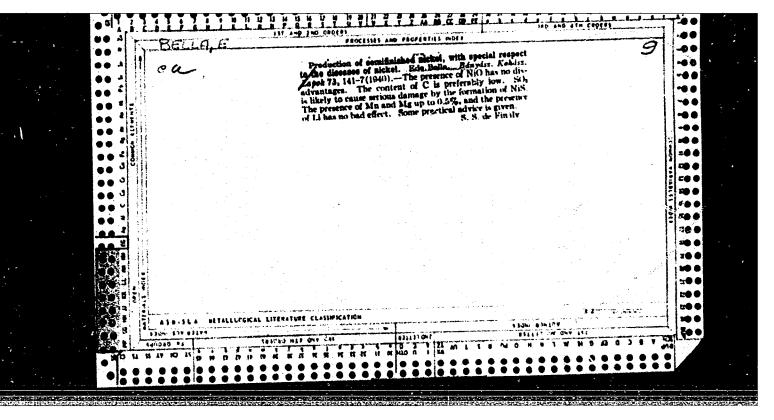
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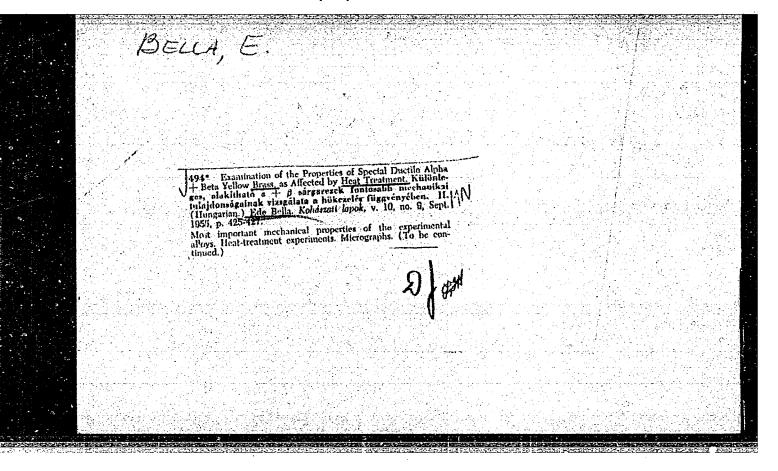


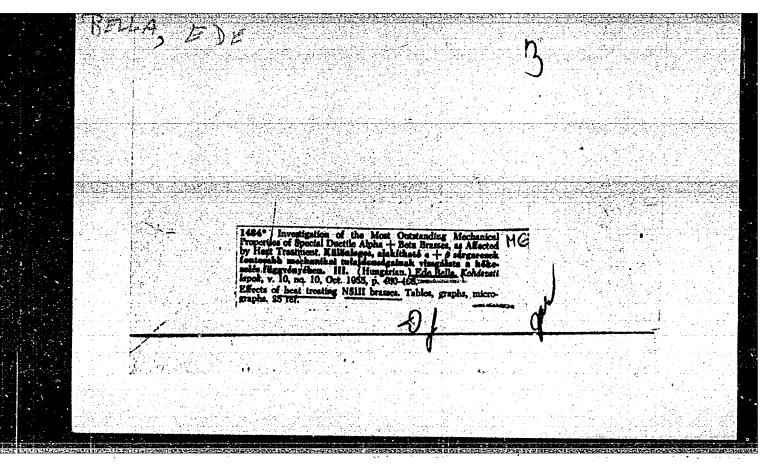










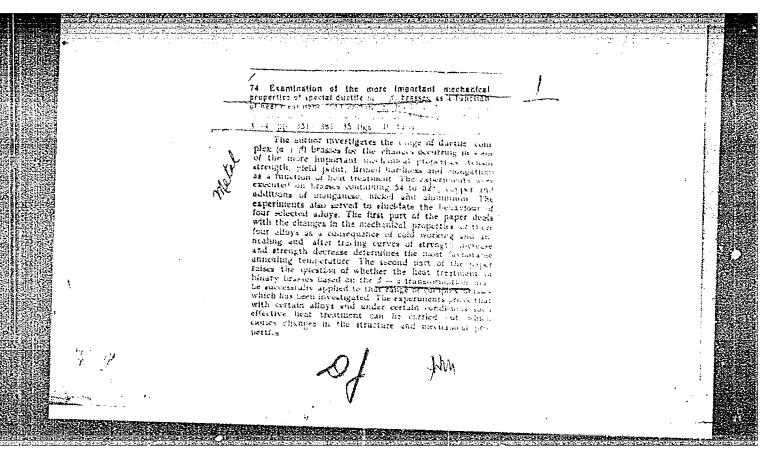


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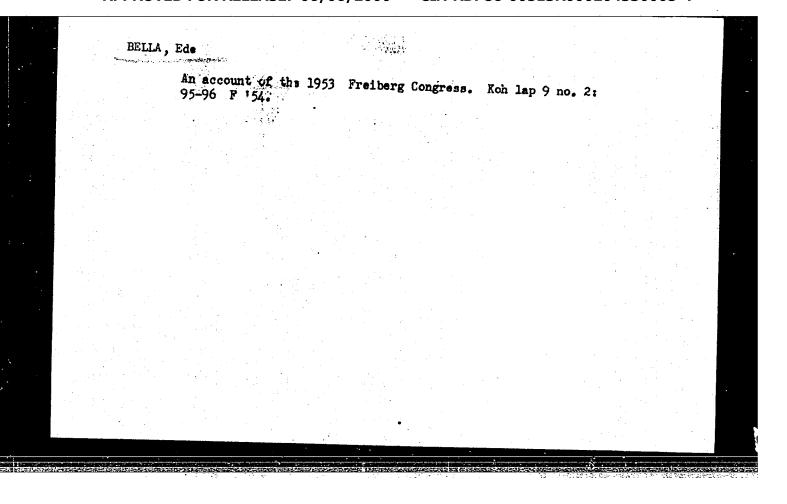
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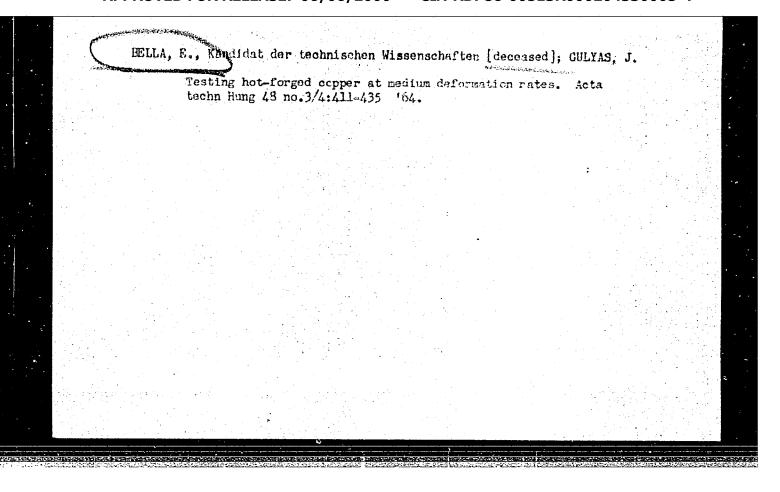
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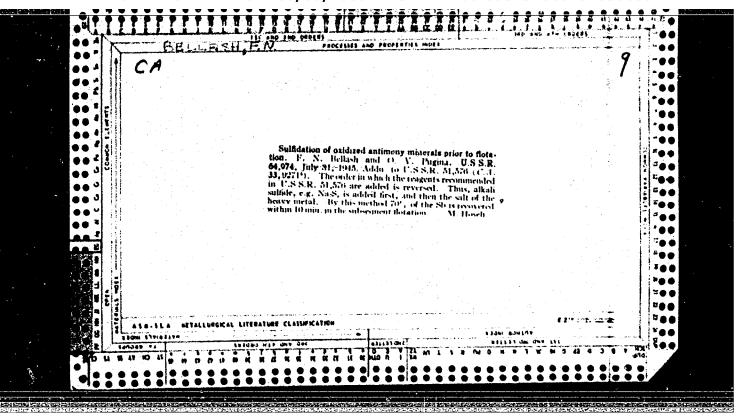
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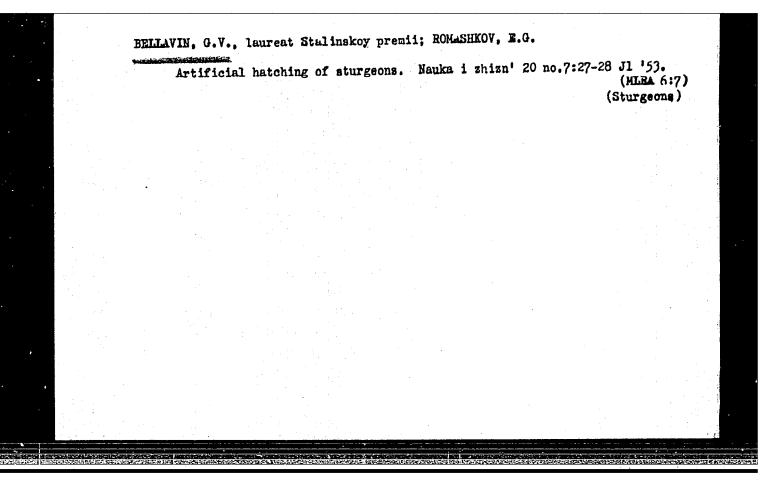
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