GREGOROWICZ, Zbigniew; STOCH, Jerzy

Indirect mercurometric determination of sulfites. Chem
anal 7 no.4:741-748 '62.

1. Department of Sanitary Chemistry, Politechnic, Gliwice,
and Department of Analytical Chemistry, Normal School,
Katowice.

GREGOROWICZ, Zbigniew, doc. dr. inz.; STOCH, Jerzy, mgr., st. asystent

Polish research on microelements. Wiad chem 16 no. 4:213-225 Ap 62.

1. Kierownik Katedry Chemii Sanitarnej, Politechnika Slaska, Gliwice, i Kierownik Zakladu Chemii Analitycznej, Wyzsza Szkola Pedagogiczna, Katowice (for Gregorowicz). 2. Zaklad Chemii Analitycznej, Wyzsza Szkola Pedagogiczna, Katowice (for Stoch).

GREGOROWICZ, Zbigniew, Dr.Ing. (Gliwice, Konarskiego 13/6, Poland); BUHL,
Franciszek (Gliwice, Konarskiego 13/6, Poland)

New applications of redox indicators in the indirect analysis of
anions. Acta chimica Hung 32 no.2:145-149 '62.

1. Institut fur Allgemeine Chemie der Schlesischen Technischen
Hochschule, Gliwice, und der Analytischen Anstalt der Pedago-
gischen Hochschule, Katowice, Poland.

BUHL, Franciszek; GREGOROWICZ, Zbigniew

Determination of traces of cupric ions with variamine blue.
Chem anal & no.4:511-515 '63.

1. Department of Sanitary Chemistry, Polytechnic College,
Gliwice, and Department of Analytical Chemistry, Pedagogical
School, Katowice.

POLAND

GREGOROWICZ, Zbigniew, doc. dr inz.; KOWALSKI, Stanislaw, mgr.;
SZALONEK, Irena, mgr.

Department of Sanitary Chemistry, Politechnika Gliwice
Research Department of the Upper-Silesian Industrial
Center, Polish Academy of Sciences, (Katedra Chemii
Sanitarnej Politechniki Slaskiej, Gliwice. Zaklad Badan
Naukowych Gornoslaskiego Okregu Przemyslowego Polskiej
Akademii Nauk), Zabrze. (for all).

"Determination of fluorine in plant material."

POLAND

GREGOROWICZ, Zbigniew, doc. dr; KULICKA, Joanna, mgr inz; KARMINSKI, Wladyslaw, dr inz.

1.Department of Sanitary Chemistry (Katedra Chemii Sanitarnej)(for Gregorowicz
and Kulicka); 2. Department of Organic Technology (Katedra Technologii
Chemicznej Organicznej)(for Karminski). Polytechnic, Silesia, Gliwice
(Politechniki Slaskiej, Gliwice) - (for all).

"Thin-layer chromatographic analysis of some pyridine derivatives."

GREGR, Jiri, MUDr.

Premature delivery in textile industry. Cesk. gyn. 22/36
no.1-2:133-136 Feb 57.

1. Gyn. por. odd. OUNZ As. Prednosta prim. MUDr. Jiri Gregr.
    (DELIVERY, statist.
        premature in textile indust. (Cz))
    (INDUSTRIAL HYGIENE
        premature delivery in textile indust. (Cz))

GREGR, Vratislav

Chemie a technologie drozdarstvi. (Chemistry and Technology of the Yeast Industry; a university textbook. 1st ed. illus., bibl.) For the students of the Faculty of Food Technology. Prague, SNTL, 1957. 295 p.

Bibliograficky katalog, CSR, Ceske knihy, No. 36. 15 Oct 57. p. 789-90.

COUNTRY   : CZECHOSLOVAKIA
CATEGORY   : Chemical Technology. Chemical Products and
                 Their Applications. Fermentation Industry
ABS. JOUR.   : RZKhim., No. 23   1959,   No. 83787

AUTHOR   : Gregr, V.; Dyr, J.
INST.   :
TITLE   : Improvements of the Technological Process of
                 lactic Acid Manufacture from Molasses

ORIG. PUB.   : Sb. Vysoke skoly chem.-technol. Praze. Odd.
                 Fak. potrav in. Technol., 1957, [1]. 177-195

ASSTRACT   : Based on special studies on the improvement
                 of mother culture preparation methods invol-
                 ving lactic becteria and on the establishment
                 of optimum conditions of their nutrition, an
                 accelerated method of conducting process on
                 a commercial scale has been developed. It in -
                 sures increase in the productivity of the fer-
                 mentation department by 100% at the simulta-
                 neous economy of malt sprouts, malt, autoly-
                 sate, phosphates and sulfuric acid and impro-
                 vement in quality of the lactic acid.

CARD: 1/1

                        H - 103

Čížek, Z.; Barta, J.; Pálivec, A.

Purification of waste water from the production of citric acid by sulfide fermentation. p. 244.
(Kvasny Prumysl, Vol. 3, no. 9, Sept. 1957, Praha, Czechoslovakia.)

9: Monthly List of East European Accessions (EEAI) LC, Vol. 7, no. 12, Dec. 1957.
Uncl.

COUNTRY: : Czechoslovakia
CATEGORY   : Chemical Technology. Chemical Products and Their
                 Applications--Fermentation industry.
ABS. JOUR.   : RZKhim., No.22 1959, No.   80058

AUTHOR   : Gregc, V.
               : Prague Chemical Engineering School
               : Increasing the Yield of Brewers Yeast. I. Selec-
                 tion and Introduction of New Yeast Strains

ORIG. PUB.   : Sb Vysoke Skoly Chem-Technol Praze Odd Fak Potravin
                 Technol, 2, 267-314 (1958)

ABSTRACT   : Laboratory and production tests on strain No 1 of
                 Saccharomyces cerevisiae Hansen var tropicus have
                 given 94.59% yields of pressed brewers yeast from
                 molasses, corresponding to a yield of 47.34% of
                 dry yeast solids on a sugar basis.
                                           From author's summary

CARD: 1/1

GREGR, V.; HAVLIKOVA, D.; STREJCHYR, V.

Ileofemoral thrombophlebitis in children. Cesk. pediat. 13 no.9:769-775
5 Oct 58.

1. III. detska klinika KU, prednosta prof. Dr. O. Vychytil.
        (THROMBOPHLEBITIS, in inf. & child
            ileofemoral, case reports (Cz))
        (VEINS, FEMORAL, dis.
            ileofemoral thrombophlebitis in child., case reports (Cz))
        (ILEUM, blood supply
            same)

TESARIKOVA, L.; SUDA, M.; RICNY,D.; RUZIK VA, H.; KUBES,V.; JURKO,A.;
    GREGR,V.; BOUCHALOVA, M.

Reactivity of children with rheumatic fever during the course
of the year. Fysiat. vestn. 43 no.2:83-91 Mr '65

1. II. detska klinika (prednosta - prof. dr. M.Toman), katedra
zdravotnictvi (vedouci - prof. dr. A. Zacek) lekarske fakulty
University J.E.Purkyne v Brne; Detske lecebny pr recmatiky a
kardiaky v Bludove, Podebrad h, Sliaci a Tep' h n.b.
(vedouci - MUDr. V. Kubes, MUDr. V. Gregr; MUDr. J. Kozacek a
MUDr. L. Tesarikova).

HOMOLKA, J.; GREGR, V., RUZICKOVA, M.

Rheumatic fever in childhood with chronically increased biochemical
activity as a special form of the course of the disease. Cesk. pediat.
20 no.9:775-780 S '65.

1. Detska lazenska lecebna chorob ustroji obehoveho v Podebradech
(vedouci MUDr. V. Gregr) a Ustredni laborator fakultni polikliniky
v Praze (vedouci prof. dr. J. Homolka, DrSc.).

RUZICKOVA, H.; GREGR, V.

Diacetyl-pyrocatechuic acid in the after-treatment of rheumatic fever. Fysiat. vestn. 43 no.6:364-367 D ' 65.

1. Detska lanecska lecebna chorob ustroji obehoveho, Podebrady.

GREGR, Vratislav, doc. inz. dr sc.

Problems and methods of treating sewages in the yeast industry.
Przem ferment i rol 8 no.2:40-44 F '65.

1. Higher School of Chemical Technology, Prague.

GREGROVA, E.

[Effect of placenta praevia on premature labor] Placenta praevia
a jeji vliv na predcasny porod. Cesk.gyn. 15 no.1-2:70-77 '50.

(CIML 19:1)

1. Of the Third Obstetric-Gynecological Clinic of Charles University,
Prague (Head -- Prof. Trapl, M.D.).

GREGROVA E.

Indications for ceasrean section. Cesk. gyn. 15:4-5 1950.
p. 365-74

1. Of the Third Gynecological and Obstetrical Clinic (Head ---
Prof. Jiri Trapl, M. D.), Charles University, Prague.

CLML 19,5, Nov. 1950

GREGROVA, E.

Infant mortality in breech presentation delivered by the Bracht's method. Cesk.gyn. 15 no.11:792-802 1950.   (CIML 20:6)

1. Of the Third Obstetric-Gynecological Clinic (Head--Prof.Trapl, M.D.), Charles University in Prague.

GREGROVA,Emanuela; SEBEK,Tibor

Effect of diathermo-coagulation of the cervix uteri on bacterial
picture of the vagina. Cesk. gyn. 25[39] no.1/2:122-124   Mr'60.

1. II. gyn.-par. klinika KU, prednosta prof. MUDr. J. Lukas,Dr. Sc.
     (ELECTROCOAGULATION)
     (CERVIX UTERI surg.)
     (VAGINA microbiol.)

PRAZIC, M.; SALAJ, B.; SUBOTIC, R.; GREGURIC, M.

Audiologic analysis of conditions in a textile mill. Arh. hig. rada. 14:207-221 '63.

1. Audioloski centar Otorinolaringoloske klinike Medicinskog fakuleta u Zagrebu.

GREGULA, Pavol, promovany geolog

Geological interpretation of the results of geophysical
measurements in the Mnisek nad Hnilcom area. Geol pruzkum
7 no.2:39-42 F '65.

1. Geologicky prieskum National Enterprise, Zilina, Branch
Enterprise in Spisska Nova Ves.

PRAZIC, Mihajlo, dr.; GREGURIC, Miroslav, ing.; SALAJ, Boris, dr.;
     SUBOTIC, Radovan, dr.

     Individual protection against damaging effect of industrial
     noise. Lijecn. vjesn. 87 no.4:409-418 Ap '65.

GREGUS, C.

"A contribution to the solution of the problem of mapping a complex forestry project."

p. 116 (Les) Vol. 12, no. 3, Mar. 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
      April 1958

GREGUS, C.

"Methods of control in our forestry."

p. 344 (Les) Vol. 12, no. 7/8, July/Aug. 1956
Prague, Czechoslovakia

so: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
     April 1958

GRECUS, C.

The graphic and mathematical methods of evaluating aerial photographs by Professor
Visnovsky.   p. 244.

LESNICKY CASOPIS. (Slovenska akademia vied) Bratislava, Czechoslovakia,
Vol. 5, no. 3/4, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

GREGUS, Ctibor

Yield index of an undergrowth forest derived from
rejuvenation periods. Les cas 8 no.2:103-114 '62.

1. Ustav pre hospodarsku upravu lsov, Zilina.

GREGUS, Ctibor, inz.

Proposal of a cutting plan in shelterwood forests. Les cas
9 no.4/5:475-477 '63.

1. Ustav pre hospodarsku upravu lesov, Zilina.

GREGUS, J.

"Progress in the Mechanization and Increase of Productivity in the Vineyards of Slovakia."
p. 965 (ZA SOCIALISTICKE ZEMEDELSTVI, Vol. 3, No. 9, Sept. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,
     April 1954. Unclassified.

GREGUS, Julius, MUDr.

Fight of health service against accidents. Pracovni lek.
7 no.3:171-172 May 55.

1. Kraj. poist. lekar SOR, Spiska Nova Ves.
     (ACCIDENTS, prevention and control
          in indust., role of health serv.)
     (INDUSTRIAL HYGIENE
          accid. prev., role of health serv.)

GREGUS, M.

"A contribution to the organization of preparatory and outside work in the complex forest management."

p. 342 (Les) Vol. 12, no. 7/8, July/Aug. 1956
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

MICHALE, GREGUS, M.

On Some Connections Among Integrals of Reciprocally "Adjungierten" Linear Differential
Equations of the Third Order and on a Boundary Value Problem

Gregus, Michal   Über einige Zusammenhänge zwischen
der Integralen der gegenseitig adjungierten linearen Dif-
ferentialgleichungen der dritten Ordnung und über ein
Randwertproblem. Acta Fac. Nat. Univ. Comenian.
Math. 1 (1956), 265–272. (Slovak.   Russian and German
summaries)

HLANG, A.

"Application of Dispersion to Second-Order Bordering Problems." p. 27,
(MATEMATICKO-FYZIKALNY CASOPIS, Vol. 4, No. 1, 1954, Bratislava, Czechoslovakia)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

GREGUS, MICHAL

Greguš, Michal. On some properties of the solutions of a homogeneous linear differential equation of the third order. Mat.-Fyz. Časopis. Slovensk. Akad. Vied 5 (1955), 73–85. (Slovak. Russian summary)

The author shows first that the integrals of the equation $y''' + 2A(x)y' + [A'(x) + b(x)]y = 0$ for which $y(a) = 0$ are the solutions of a certain linear differential equation of second order; similarly for those integrals for which $y'(a) = 0$ or $y''(a) = 0$. For these classes of integrals certain results are proved, in particular the following theorem: If $A = A(x, \lambda) > 0$, $A' = \partial A(x, \lambda)/\partial x$, $b = b(x, \lambda) > 0$ are continuous in $-\infty < x < \infty$, $\Lambda_1 < \lambda < \Lambda_2$, and A is increasing in λ, $A(x, \lambda) \to \infty$ as $\lambda \to \Lambda_2$, and $a < b < c$, then the above equation has infinitely many solutions $y_n, y_{n+1}, \cdots, y_{n+p}, \cdots, y_{n+p}(a) = y_{n+p}(b) = y_{n+p}(c) = 0$, belonging to the parameter values $\lambda_n, \lambda_{n+1}, \cdots, \lambda_{n+p}, \cdots$ which converge to Λ_2. The solution y_{n+p} has exactly $n+p$ zeros in (b, c).

$M. Golomb$ (Lafayette, Ind.).

Gregus, M.

Some new aspects of solving the differential equation $y''' + Qy' + Q'y=0$. p. 237.

Bratislava. Univerzita. Prirodovedecka fakulta. SPISY Brno, Czechoslovakia.
No. 365, 1955.

Monthly List of East European Accessions, (EEAI) LC, Vol. 8, no. 10, 1959. —Oct.
Uncl.

The Differential Equation of the Third Order $y''' + 2Ay' + (A'+b)$ y = 0 With All
Oscillatory Solutions

Greguš, M.   Die Differentialgleichung der dritten Ord-
nung $y'''+2Ay'+(A'+b)y=0$, mit allen oszillatorischen
Lösungen.   Acta Fac. Nat. Univ. Comenian. Math. 1
(1956), 41–47.   (Czech.   Russian and German summaries)
     In dieser Arbeit wird das Problem gelöst, unter welchen
Bedingungen jede Lösung der Differentialgleichung

$$y'''+2Ay'+(A'+b)y=0$$

im Interval $(-\infty, \infty)$ unendlich viele Nullstellen hat.
                    Aus der Zusammenfassung des Autors

Greguš, Michal. Über einige neue Randwertprobleme einer Differentialgleichung dritter Ordnung. Czechoslovak Math. J. 7(82) (1957), 41–47. (Russian. German summary)

Der Verfasser beschäftigt sich mit den Eigenwertaufgaben bei der Differentialgleichung $y''' + 2A(x,\lambda)y' + [A'(x,\lambda) + b(x,\lambda)]y = 0$. Er betrachtet fünf Typen von Randbedingungen: (1) $y(a) = y'(a) = y(b) = 0$; (2) $y(a) = y'(a) = y'(b) = 0$; (3) $y(a) = y(b) = y'(c) = 0$; (4) $y(a) = y'(b) = y(c) = 0$; (5) $y(a) = y'(b) = y'(c) = 0$, wo $a < b < c$. Unter gewissen Bedingungen über die Koeffizienten $A(x,\lambda)$ und $b(x,\lambda)$ beweist er mit Hilfe eines Oszillationssatzes von Sansone [Univ. Nac. Tucumán. Rev. A. 6 (1948), 195–253; MR 10, 300] die Existenz unendlich vieler reeller Eigenwerte und charakterisiert die zugehörigen Eigenfunktionen durch die Anzahl ihrer Nullstellen im Intervall $\langle a, b \rangle$, bzw. $\langle b, c \rangle$.   M. Zlámal (Brno)

On Certain New Boundary Value Problems, of a Third Order Differential Equation

On the Linear Differential Equation of the Third Order With Constant Coefficients

Greguš, M. Über die lineare Differentialgleichung der dritten Ordnung mit konstanten Koeffizienten. Acta Fac. Nat. Univ. Comenian. Math. 2 (1957), 61–66. (Slovak. Russian and German summaries)

In dieser Arbeit behandelt man einige Eigenschaften der Lösungen der linearen Differentialgleichung dritter Ordnung mit konstanten Koeffizienten der Form:

(a) $$y''' + 2Ay' + \Omega y = 0$$

und die Eigenschaften der Lösungen der zu ihr adjungierten:

(b) $$z''' + 2Az' - \Omega z = 0,$$

dabei sind $A > 0$, $\Omega > 0$ Konstanten.

Im zweiten Teil wird die Existenz der Eigenwerten für die Differentialgleichung (a) und für die Randwertaufgabe

$$y(x_0 - d, \lambda) = y(x_0, \lambda) = y''(x_0, \lambda) = 0$$

durchgeführt, wo $x_0 \in (-\infty, \infty)$, $d > 0$ konstante Zahlen sind. Dabei $A = A(\lambda)$, $\Omega = \Omega(\lambda)$ bedeuten für $\lambda \in (\Lambda_1, \Lambda_2)$ stetige Funktionen mit bestimmten Eigenschaften.

Zusammenfassung des Autors

The Homogeneous Boundary Value Problem for the Solution of a Linear Differential
  · Equation of the Third Order 16

Greguš, M. Das homogene Randwertproblem für die
Lösungen einer linearen Differentialgleichung dritter
Ordnung. Acta Fac. Nat. Univ. Comenian. Math. 2
(1958), 219–228. (Slovak. Russian and German sum-
maries)

$\mathcal{Z}$

/- F\ W

In der Arbeit sind zwei Randwertprobleme für die
Lösungen der Differentialgleichung

$$y''' + 2A(x, \lambda)y' + [A'(x, \lambda) + b(x, \lambda)]y = 0$$

gelöst. *Aus der Zusammenfassung des Autors*

37587
S/044/62/000/004/023/099
C111/C444

AUTHOR: Gregus, M.

TITLE: Homogeneous boundary value problems for a linear differential equation of third order

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 33, 34, abstract 4B151. (Acta Fac. rerum natur. Univ. Comenianae Math., 1958, 2, no. 5 - 6, 219 - 228)

TEXT: One solves boundary value problems for the differential equation

$$y''' + 2A(x,\lambda)y' + \left[A'(x,\lambda) + b(x,\lambda) \right] y = 0 \qquad (1)$$

I. One supposes that $A(x,\lambda) > 0$, $\dfrac{\partial A(x,\lambda)}{\partial x}$ and $b(x,\lambda) \geqslant 0$ are continuous with respect to $x \in (-\infty, \infty)$ and $\lambda \in (\Lambda_1, \Lambda_2)$.

For (1) the boundary value problem

$$y(a,\lambda) = 0,$$
$$\alpha_1(\lambda)y(b,\lambda) - \alpha(\lambda)y'(b,\lambda) = 0,$$
$$\beta_1(\lambda)y(c,\lambda) - \beta(\lambda)y'(c,\lambda) = 0.$$

Card 1/2

Homogeneous boundary value problems...   S/044/62/000/004/023/099
C111/C444

is solved.

II. One supposes that $A(x, \lambda)$ increases in $\lambda \in (\Lambda_1, \Lambda_2)$;

$\lim\limits_{\Lambda \to \Lambda_2} A(x, \lambda) = +\infty$ for every $x \in (-\infty, \infty)$; $b(x, \lambda) \neq 0$ for every sub-

interval for $x \in (-\infty, \infty)$.

For (1) the boundary value problem

$A_1(\lambda)y(a, \lambda) + A_2(\lambda)y'(a, \lambda) + A_3(\lambda)y''(a, \lambda) = 0,$

$B_1(\lambda)y(b, \lambda) + B_2(\lambda)y'(b, \lambda) + B_3(\lambda)y''(b, \lambda) = 0,$

$C_1(\lambda)y(c, \lambda) + C_2(\lambda)y'(c, \lambda) + C_3(\lambda)y''(c, \lambda) = 0,$

is solved, where $a < b < c$. The solution follows by aid of the oscillation theorem of Sansone, G.(Revista math. y fis. theorica; 1948, Ser. A., Tuckman. 195), and it relies on the properties of the family of the solutions of the equation (1) (RZhMat; 1956, 5227).

[Abstracter's note: Complete translation.]

Card 2/2

l .40%

3/044/62/000/005/015/072
C111/C333

AUTHOR: Gregus , M.,

TITLE: On some properties of the solutions of the third order
               linear differential equation

PERIODICAL: Referativnyy zhurnal, Matematika, no. 5, 1962, 53,
               abstract 5B247. ("2ème congr. math. hongrois, Budapest,
               1960". Budapest, 1961, IIIIa/57-59)

TEXT: The differential equation

$$y''' + 2Ay' + (A' + B)y = 0 \qquad (1)$$

is considered. A number of theorems on the oscillation properties of the
solutions and on the boundary value problems for (1) are formulated
with-out proofs. If $A(x) \le 0$, $A' \ge 0$, $b \ge 0$, then every solution of (1) .
has at least two zeros on $(-\infty, \infty)$. For the case where the coefficients
of (1) depend on a parameter λ , the author gives a condition for the
existence of enumerably many λ values for which the problem $y(a) = y(b) =$
$= y(c) = 0$ has a non-trivial solution.
[Abstracter's note: Complete translation.]
Card 1/1

GREGUS, M.

On some properties of the solutions of a differential equation of the third order. Acta r nat Univ Com 7 no.11:585-595 '63.

1. Katedra matematiky prirodovedeckej fakulty, Univerzita Komenskeho, Bratislava, Smeralova 2.

GREGUS, M.

Remarks on insoluble boundary problem of the third order.
Acta r nat Univ Com 7 no.12:639-647 '63.

1. Katedra matematiky, Univerzita Komenskeho, Bratislava,
Smeralova 2.

GREGUS, M., doc. dr. CSc.

On the boundary value problem of the nth order in m points. Acta
r nat Univ Com 9 no.11:49-55 '64.

1. Chair of Mathematical Analysis of the Faculty of Natural Sciences
of Comenius University, Bratislava, Smeralova 2/a.

GREGUS, Michal

On the generalized boundary problems of the nth order. Cas pro pest mat 89 no.1:85-89 F '64.

1. J.A Comenius University, Bratislava, Smeralova 2. Submitted November 10, 1962.

86352
S/046/60/006/004/001/022
B019/B056

24.1800

AUTHORS: Gregush, A., Gregush, P.

TITLE: The Effect of Ultrasonics Upon the Catalytic Properties of
            MnO$_2$ Gels and Suspensions

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 4, pp. 441 - 445

TEXT: In the experiments carried out here, the authors used a barium
titanate emitter, which operated with a natural frequency of 875 kc/sec.
The intensity in the focus was about 150 watt/cm^2. An investigation was
made of the effect of MnO$_2$ suspensions and gels upon the decay of H$_2$O$_2$ in
an irradiation with an intense ultrasonics. The MnO$_2$ concentration was such
that exactly 50 cm^3 of oxygen were formed from 20 cm^3 H$_2$O$_2$ at 25°C. The
decay rate of H$_2$O$_2$ was measured by means of an experimental system con-
sisting of a piston with the catalyst, a water tank, a H$_2$O$_2$ container, a
mixing motor, a mixer with a mercury seal, a gas burette, and a thermostat.
Card 1/3

The Effect of Ultrasonics Upon the Catalytic   S/046/60/006/004/001/022
Properties of MnO_2 Gels and Suspensions   B019/B056

86352

From the results obtained the authors recognized that in ultrasonic
irradiation, the decay of H_2O_2 is more intense initially than without
irradiation, but this intensity becomes weaker later, and the decay of the
entire H_2O_2 in all cases takes the same time. It further follows from the
results obtained that the decay rate has an upper limit, which is caused
either by specific sound-induced chemical reactions or which is a colloidal
effect. If ΔV is understood to stand for the difference between the oxygen
volume formed under the effect of ultrasonics and the oxygen volume formed
without ultrasonics, the experimental data for the suspension may be well
described by $\Delta V = A_1 t^{b_1} e^{-0.233t}$ and for gel by $\Delta V = A_2 t^{b_2} e^{-0.533t}$. The
course taken by these curves has considerable similarity with that of
adsorption curves. As further concluded by the authors, the change in the
catalyst effect of the MnO_2 gels and suspensions is due to a coagulating
effect of ultrasonics. The authors thank Professor A. Buzagh for raising
the problem and Docent Volfram for his assistance. There are 7 figures and
4 references: 2 Soviet, 1 Hungarian, and 1 German.

Card 2/3

86352

The Effect of Ultrasonics Upon the Catalytic   S/046/60/006/004/001/022
Properties of MnO$_2$ Gels and Suspensions   B019/B056

ASSOCIATION: Laboratoriya ul'trazvuka Instituta zh.-d. transporta
Budapest (Laboratory of Ultrasonics of the Institute of Rail-
road Engineers, Budapest)

SUBMITTED: February 10, 1960

Card 3/3

GREGUSH, P. (Vengerskaya Narodnaya Respublika)

Silicified tree trunk from the lower Eocene of the Volga
Basin. Paleont.zhur. no.3:134-137 '59.

(MIRA 13:4)

(Volga Valley--Sequoia, Fossil)

GREGUSH, P. [Greguss, Pal]; FILIN, V.R.[translator]; CHISTYAKOVA,
O.N.[translator]; DANIL'CHENKO, O.P., red.; MUKHINA, L.V.,
tekhn. red.

[A guide to the wood analysis of gymnosperms based on
microscopic data] Opredelitel' drevesiny golosemennykh
po mikroskopicheskim priznakam. Moskva, Izd-vo Mosk.
univ. 1963. 183 p. Translated from   (MIRA 16:11)
the Hungarian.

(Wood--Anatomy)   (Gymnosperms)

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        (RADIOISOTOPES)   (IODINE)   (BUFFER SUBSTANCES)

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Effect of urea on the separation of histone from the thymus gland of a
calf by electrophoresis. Coll Cz Chem 25 no.11:2765-2769 N '60.

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1. Onkologisches Forschungsinstitut, Bratislava.
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                (Electrophoresis)

HUPKA, S.; GREGUSOVA, V.; THURZO, V.

The interaction of calf thymus histone with native plasma as followed in vitro and in vivo in rabbits. Neoplasma 8 no.6:561-566 '61.

1. Institute of Oncological Research, Bratislava.

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1. Oncological Research Institute, Bratislava, Czechoslovakia.

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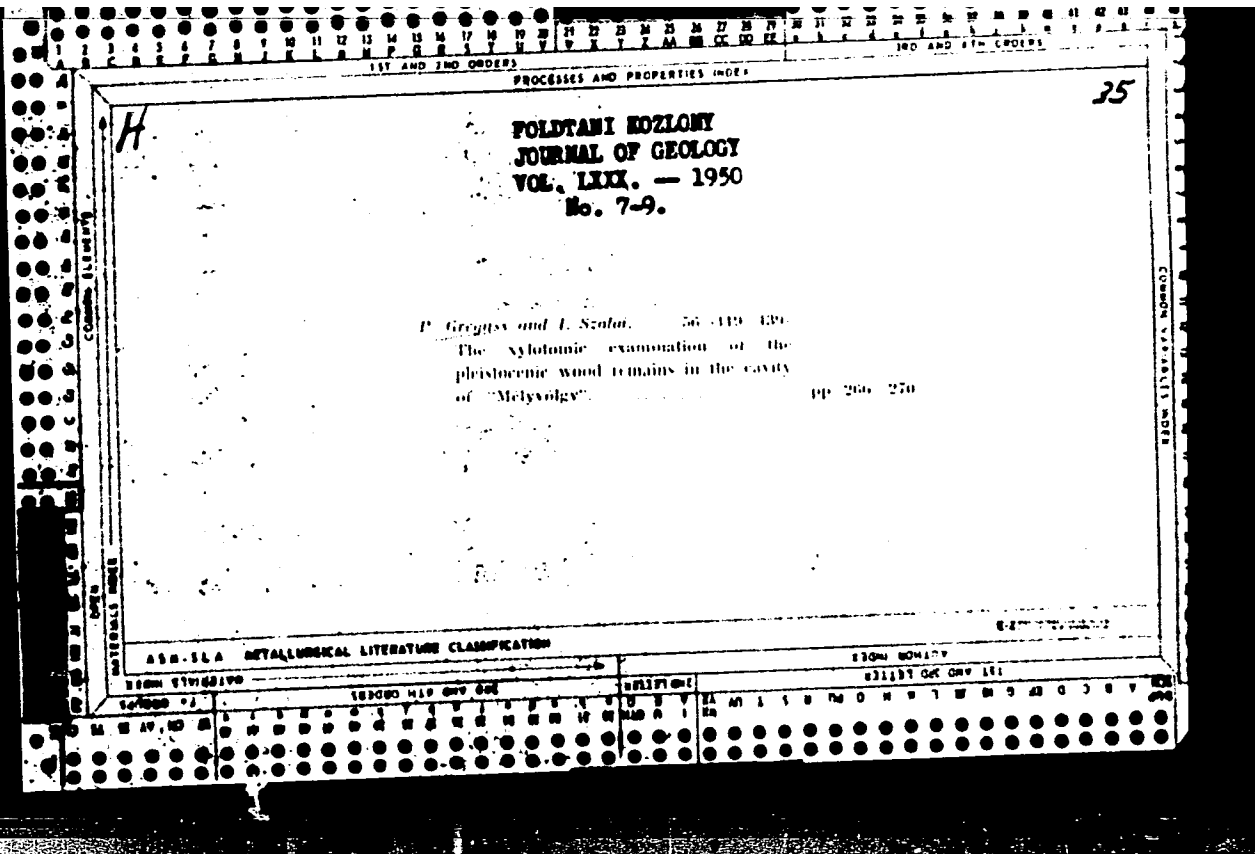(COBALT radioactive)

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1. Z Vyskumneho ustavu onkologickeho v Bratislave, riaditel clen koresp. SAV V. Thurzo.

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(BLOOD VOLUME)

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VOL. LXXX. — 1950
No. 7-9.

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of "Melyvölgy".   pp. 266 270

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summary. illus., plates, bibl., table. (Xylotomischer Bestimmungsschlussel der
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CtY

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p. 91, (FOLDTANIKOZLONY. BULLETIN OF THE HUNGARIAN GEOLOGICAL
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    Identifying a lower Miocene wood trunk found in Turow on the bank of the Neisse River. p. 273.
    ACTA GEOLOGICA POLONICA, Warszawa, Vol. 5, no. 2, 1955.

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     Uncl.

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The phyllotaxy of Metasequoia, Sequoia, and Taxodium. In English. p. 29.
(ACTA BIOLOGICA. Vol. 2, no. 1/4, Dec. 1956, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
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Plant remains of the Cretaceous period from Tata. In German. p. 39.
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(Az Erdo, Vol. 6, No. 1, Jan 1957, Budapest, Hungary)

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Histological investigation of tree. p. 257

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1. Director, Institutum Botanicum Universitatis, Szeged, Hungary,
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Ultrasonic waves : a new aid to archaeology. Elet tud 16 no.46:1467-1468 N '61.

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Research in ultrasonics in the United States; a visit to American
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Critical remarks about the applicability of ultrasonic waves in the chemical industry. Magy kem lap 17 no.11:494-505 N '62.

1. Vasuti Tudomanyos Kutato Intezet.

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LIGETI, Gyorgy; GREGUSS, Pal, dr. (Jr)

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no.25:11 3 D '64.

1. Head, Ultrasonic Laboratory, Railroad Scientific Research
Institute, Hungarian State Railways, Budapest (for Greguss).

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Application of ultrasonic waves in some institutes in Moscow.
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Relationships of Cycadales on the basis of their xylotomy.
Acta bot Hung 10 no.1/2:127-144 '64.

1. Institute of Botany Attila Jozsef University, Szeged.
Submitted March 8, 1962.

GREGUSS, P. JR.   ½

33. The recovery of cement dust from kiln chimneys by acoustic means —
Szallo cementpor visszanyerese akusztikus uton — by T. Tarnoczy and P. Greguss
Jr. (Hungarian Engineering — Magyar Technika — No. 5, pp. 21—25, May 1951,
4 figs, 1 tab.)

Large quantities of clinker dust are carried away through the chimneys
of drying of kilns in cement manufacturing works. This dust not only jeopardizes
the health of factory workers and the population of the area, it also endangers
buildings by settling on roofs and, moreover means a substantial loss in clinker
dust. To a certain extent heat losses also must be taken into account, since
the hot air, if freed from dust, can be utilized in production. Unsuccessful
experiments had been made to recover the dust by electrostatic methods, however,
a supersonic process, devised by Brandt, Freund and Hiedemann in 1936, had
proved more successful. By this process, cigarette smoke and oil vapours were
subjected to mechanical vibrations generated by a magnetostriction-type ultra-
sonic generator which resulted in orthokinetic coagulation. On the basis of
several other experiments, dealt with in detail, the daily amount of 6 tons
of deposited dust could be raised threefold, i.e. to approx. 18 tons at the
Tatabanya Cement Works by applying a Hartmann gas flow generator into the
chimneys at several angles. The acoustic efficiency of this generator was

(over)

T. TARNOCZY

6.8 per cent and achieved the above results with advancing waves of 0.12 W per sq. cm intensity. The article describes the experiments and computations and also give comprehensive tables of the results.

GREGUSS, P., JR.

Possibility of using acoustical energy in civil engineering. p. 483.
Inspection of civil engineering works during their execution. p. 489.

Vol. 4, no. 9, Sept. 1954.
MELYEPITESTUDOMANYI SZEMLE
Budapest

SOURCE: Monthly list of East European Accession, (EEAL), LC, Vol. 5,
    No. 3, March, 1956

GRĚGUSS, P., JR.

"Obtaining caffeine from coffee by acoustical extraction." Elelmezesi Ipar, Budapest,
Vol. 8, No. 4, Apr. 1954, p. 114.

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

GREGUSS, P.,JR.

GREGUSS, P,JR.
USe of supersonics in the leather industry. p. 75

Vol. 5, No. 4, August, 1955 Budapest, Hungary BOR-ES CIPUTECHNIA

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5
     No. 3, March, 1956

Hungary/Acoustics - Ultrasonics, J-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35581

Author: Greguss, Pal

Institution: None

Title: Demonstration of the Use of Ultrasonics in Industry at the Leipzig
Fair

Original
Periodical: Meres es automat., 1956, 4, No 5, 152-154

Abstract: None

Card 1/1

Category: Poland

                                             B-10

Abs Jour: Zh--Kh, No 3, 1957, 7632

Author   :   Greguss, P., Jr.
Inst   :   Not given
Title   :   Dehydrogenation and Cyclization of Paraffin Compounds Under the Action of Sound Waves

Orig Pub: Przem. Chem., 1956, Vol 12, No 4, 226-229 (published in Polish with summaries in Russian and English)

Abstract: The effect of sound waves on the dehydrogenation and cyclization of paraffin compounds has been established (spectroscopic and electron microscopic investigation, determination of octane number). The sound waves apparently act on the layer adjoining the wall of the reactor. The mechanism of the reaction depends on the physical and chemical properties of the reactor walls.

Card   :   1/1

                            -3-

GREGUSS, P.

Dehydrocyclization by acoustic waves. P. Greguss, Jr. (Central Inst. Phys. Research, Budapest, Hung.). Prze-mysł Chem. 35, 226-9(1956).—Paraffins were refluxed in an app. that had a source of acoustic waves at the end of the reflux condenser. This treatment led to a simultaneous dehydrogenation and cyclization of the paraffins, as could be found by investigating the final products spectroscopically, electron-microscopically, and by a detn. of their octane values. It is assumed that the reactions observed actually take place anyhow at the walls of the vessel, which catalyze them; the acoustic waves act upon the boundary layers, thus furnishing more energy, and the catalytic processes may occur more easily. On changing the reactor material for one that has other chem. and phys. properties, the final products obtained from the same paraffin, are quite different.
Werner Jacobsen

86353
S/046/60/006/004/001/022
B019/B056

24.1800

AUTHORS: Gregush, A., Gregush, P.

TITLE: The Effect of Ultrasonics Upon the Catalytic Properties of
                MnO_2 Gels and Suspensions

PERIODICAL: Akusticheskiy zhurnal, 1960, Vol. 6, No. 4, pp. 441 - 445

TEXT: In the experiments carried out here, the authors used a barium
titanate emitter, which operated with a natural frequency of 875 kc/sec.
The intensity in the focus was about 150 watt/cm^2. An investigation was
made of the effect of MnO_2 suspensions and gels upon the decay of H_2O_2 in
an irradiation with an intense ultrasonics. The MnO_2 concentration was such
that exactly 50 cm^3 of oxygen were formed from 20 cm^3 H_2O_2 at 25°C. The
decay rate of H_2O_2 was measured by means of an experimental system con-
sisting of a piston with the catalyst, a water tank. a H_2O_2 container, a
mixing motor, a mixer with a mercury seal, a gas burette, and a thermostat.
Card 1/3

The Effect of Ultrasonics Upon the Catalytic   86352
Properties of MnO$_2$ Gels and Suspensions   S/046/60/006/004/001/022
    B019/B056

From the results obtained the authors recognized that in ultrasonic
irradiation, the decay of H$_2$O$_2$ is more intense initially than without
irradiation, but this intensity becomes weaker later, and the decay of the
entire H$_2$O$_2$ in all cases takes the same time. It further follows from the
results obtained that the decay rate has an upper limit, which is caused
either by specific sound-induced chemical reactions or which is a colloidal
effect. If ΔV is understood to stand for the difference between the oxygen
volume formed under the effect of ultrasonics and the oxygen volume formed
without ultrasonics, the experimental data for the suspension may be well
described by $\Delta V = A_1 t^{b_1} e^{-0.233t}$ and for gel by $\Delta V = A_2 t^{b_2} e^{-0.533t}$. The
course taken by these curves has considerable similarity with that of
adsorption curves. As further concluded by the authors, the change in the
catalyst effect of the MnO$_2$ gels and suspensions is due to a coagulating
effect of ultrasonics. The authors thank Professor A. Buzagh for raising
the problem and Docent Volfram for his assistance. There are 7 figures and
4 references: 2 Soviet, 1 Hungarian, and 1 German.

Card 2/3

86382

The Effect of Ultrasonics Upon the Catalytic   S/046/60/006/004/001/022
Properties of MnO_2 Gels and Suspensions   B019/B056

ASSOCIATION: Laboratoriya ul'trazvuka Instituta zh.-d, transporta
Budapesht (Laboratory of Ultrasonics of the Institute of Rail-
road Engineers, Budapest)

SUBMITTED: February 10, 1960

Card 3/3

WEISZBURG, J.; GREGUSS, P.Jr.

The effect of ultrasonic irradiation on electroluminescent panels.
Acta phys Hung 11 no.2:185-191 '60.   (EEAI 9:10)

1. Industrial Research Institute for Telecommunication Technique
and RSRI Ultrasonic Research Laboratory, Budapest. Presented by
G.Szigeti.
        (Ultrasonics)
        (Luminescence)