

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Agronomia.—Le population mundial de boves e bufalos domestic es circa un tertio del population mundial human. Illo ha crescite in le curso del passate octo annos per circa 100 milliones e sta nunc in le vicinitate de un milliardo capites. Iste datos se trova in un reporto del statounitese Departamento de Agricultura.

Astronautica.—Dr. B. Black-Schaffer del Universitate Cincinnati ha constatate que animales experimental accepta le stress de enorme acceleraciones multo melio si illos es paccate in saccos plenate de liquido. Pro render un tal impaccamento possibile, le animales es "hypothermisate," i.e., illos es artificialmente ponite in un stato de hibernation. Un importante resultado de iste experimentos esseva le constatation que animales que es naturalmente hibernatores—hamsters, per exemplo—es multo melio capace a tolerar le stress del impaccamento hypothermic in liquido e del acceleration subsequente que animales que non es naturalmente hibernatores—rattos, per exemplo. Le problema que Dr. Black-Schaffer nunc desira solver es eliminar le differentia inter non-hibernatores e hibernatores natural sub le conditiones del mentionate experimentos, i.e. stimular in non-hibernatores le reactiones que protege le hibernatores. Si le problema es solvite e si le solution es tal que illo pote esser applicate a humanos, grande consequentias pote resultar pro le astronautica futur.

Ingenieria Biomedical.—Un nove curriculum de cursos academic, combinante ingenieria e scientias medical, esseva initiate cooperative-mente per le tres Universitates Johns Hopkins, Pennsylvania, e Rochester. Le curriculum duce al grado de doctor. Su existentia da recognition al crescente importantia del rolo de ingenieria e technologia in le campo del scientias medical.

Ingenieria Petroleari.—Campos electric pote esser usate pro miscer liquidos in un apparatus sin partes mobile. Pro miscer, per exemplo, dimethylformamida, anilina, o varie esteres o aldehydys con le un o le altere hydrocarburo (que es usualmente non miscibile), le duo liquidos es placiante in un receptaculo equipate de duo electrodos de maniera que un del liquidos bania un del electrodos e le altere le altere. Un forte corrente directe inter le electrodos resulta in cargas electric opposite in le particulas del un e del altere liquido. Le assi generate attraction inter illos occasional lor intermixture. Le methodo es efficace e economic. Illo esseva disveloppate in le laboratorios del Compania American Oil.

Medicina.—Undas ultrasonic esseva usate a bon successo in le tractamento de un morbo chronic del aures que, usque nunc, requireva frequentemente un intervention chirurgic con le resultado de forte perditas in audition. Le morbo es cognoscite como syndrome de Meniere e include como symptomatas tinnito e vertigine. Le therapia a undas ultrasonic esseva usate per Dr. F. Altmann del Universitate Columbia in 60 casos e es recommendate per ille in loco del operation chirurgic quandonque iste syndrome non responde a medication.

Meteorologia.—Circa cento fulmines batte le terra omne secunda. Isto es le conclusion de calculations statistic effectuate per Dr. R. C. Davis del statounitese Bureau de Standards.

Ornithologia.—In le stato de Hestia in Germania, le population de ciconias ha declinate in le curso del passate dece annos per 43 pro cento. In altere partes de Europa le situation es similemente triste. Le causa pare esser le accele-

rate drainage de paludes e mariscos. Tal drainage es requirite in le interesse de un plus efficace economia agricultural, sed illo etiam resulta in le elimination de multes del fontes de alimentation pro le ciconias (que vive primariamente de ranas e pisces e altere creaturas aquatic).

Physica.—Un alligato de niobium e stanno, disveloppate in le laboratorios del Compania Electric Bell, provide un magnete permanente cento vices plus forte que omne altere material usque nunc cognoscite. Recercas effectuate per medio de iste nove alligato esseva reportate per Dr. Ch. E. Roos del Universitate Vanderbilt e Dr. G. Kneip del Laboratorio National Oak Ridge. On crede que iste disveloppamento va promover le technologia del generation de energia thermonucleari que require "bottillas magnetic" proque le temperaturas que debe esser attingite excede le tolerantia de receptaculos material.

Physica Atomic.—Tres libras de cobalt-60 esseva transportate ab le Laboratorios National Oak Ridge in Tennessee ad le Bureau National de Standards in Washington. Le radiation de tres libras de cobalt-60 es equivalente a illo de 180 libras de radium. Le receptaculo usate in le transporto habeva un peso de cinque tonnas. In transito le cargo requireva un frigidation continue.

Physica Nucleari.—Le Autoritate de Energia Atomic del Regno Unite a Harwell, Grande Britannia, ha perfectionate un nove methodo pro solver le problema del dejectos radioactive que es, cognoscite, un multo indesirabile producto lateral in le generation de energia atomic. Le dejectos, in un solution de acido nitric, es miscite con silice e borace, e le resultante mixtura es processate ad in un materia vitrose que contine un a 30 pro cento de dejecto in forma oxydate.

Psychiatria.—Il non es rar, secundo Dr. R. Kohl del Universitate Cornell, que le curation de un patiente mental qui es maritate coincide con le declaration de un morbo mental in le sposo o sposa. In le curso de dece annos, Dr. Kohl ha vidite 46 tal casos. Le successo permanente del psychotherapia de un patiente maritate depende frequentemente del reactiones del parte del partenari de maritaje qui non se ha presentate al consultation. Le situation es difficile si ille reactiones es predominantemente un attitude de hostilitate conscie o inconscie.

Psychiatria.—Inter 900 consecutive patientes de minus que 17 annos de etate admittite al hospital mental Bellevue in New York, 106 habeva tentate committer suicidio. Le plus juvenile del 106 habeva solmente octo annos. Octanta-cinque esseva pueras, 21 pueros. Inter le adolescentes, le predominantia del sexo feminin esseva ancora plus marcate: 77 esseva pueras e solmente octo pueros. Inter le 21 patientes de minus que 12 annos in le gruppo total del essayos de suicidio, le distribution del sexos esseva revertite: 13 esseva pueros e octo pueras.

Statistica Demographic.—Le etate medie del fermeros in le Statos Unite cresce progressive-mente. Illo nunc es 50,5 annos. Plus que 16 pro cento de omne le fermeros statounitese ha passate le etate de 65 annos. In West-Virginia le etate medie del fermeros es 54,5 annos, in Alaska 46 annos. Iste duo statos representa le duo extremos del scala. In illos, 25 e 8,2 pro cento del fermeros, respectivamente, ha passate le etate de 65 annos.

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