

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Materiales.—In circulos technic del Statos Unite on crede que le utilitate extraordinari del plastic polyethyleno va tosto esser equalate o excedite per illo del nove plastic polypropyleno que esseva lanceate al mercato in Italia minus que duo annos retro.

Astronautica.—Senior J. G. Vaeth, representante un suborganisation pro recercas astronomic intra le Departamento de Defensa del Statos Unite, ha exprimito su opinion que le problemas technic in le projecto de lancear un homine in un viage satellitari circa le terra es plus o minus solvite. Sed, dice senior Vaeth, ante que on execute un tal projecto, on debe esser secur que un homine como viagiator cosmic esserea plus efficace que omne existente apparatus non-animate in le effectuation del observationes que nos expecta ab nostre prime expeditiones astronomic. Senior Vaeth crede que ab iste puncto de vista (e a iste tempore in le historia del progresso technologic) machinas es superior a humanos.

Astronomia.—Secundo un reporto del Observatorio Harvard a Cambridge, Massachusetts, observationes astrophotographic facite in Nove Mexico con cameras del typo Baker super-Schmidt permette le calculation que omne die novanta milliones meteoros de magnitudes opticamente detegibile penetra nostre atmosphaera usque a un distantia de novanta kilometros ab le superficie del terra.

Obstetricia.—Un physica medical britannic ha perfectionate un stethoscopio electronic que rende audibile le sonos cardiac de fetos durante le processo del nascentia. Le manipulation del apparato es satis simple pro recommendar lo al uso routinari mesmo pro simple obstetricas sin trainamento academic. Le apparato consiste in principio de duo minuscule microphonos que es attachate al corpore del matre e de un dispositivo special que es appellate soniscopio e que effectua un amplification selective del sonos cardiac del feto. Quando irregularitates de sono indica irregularitates functional in le corde del feto, le apparato reage per un signal de alarma indicante que mesuras de urgentia (medical o mesmo chirurgic) es requirite. On spera que le uso generalisate del apparato va reducer substantialmente le mortalitate fetal e etiam materno durante le processo nascential.

Psychologia Animal.—In le laboratorios psychobiologic del Universitate Cornell, capras neonate esseva subjicite a experimentos de reflexo conditionate ante que illos habeva establite un relation normal con lor matres. Quasi omne le capras assi tractate moriva ante le tempore de lor maturitate. Le examine necroptic de illos revelava plus o minus marcate grados de malfunction in lor glandulas suprarenal, specialmente con respecto a lor production de cortisona. Le experimentos supporta le conclusion que neonatos subjicite a stresses innatural es impericulate in lor disveloppamento subsequente. Il pare plausibile cercar in stresses perinatal le causa de varie morbos chronic e de un comportamento neurotic o psychotic del parte de individuos adulte, tanto animal como etiam human.

Energia Atomic.—Strontium-90 e altere periculose isotopos que es producite in le generatione de energia per fission atomic pote esser includite in blocos de vitro e assi rendite innocue pro generationes futur. Tal blocos pote esser immergite in le oceano sin ulla periculo, proque aqua (incluse aqua marin) exerce quasi nulle effecto super le vitro. Le technica del inclusion de isotopos in vitro esseva disveloppate in Canada.

Ichthyologia.—In recercas al Station Experimental de Pischeria Pacific a Vancouver in Co-

lumbia Britannic, il esseva constatate que le pelle human excerne substantias que repelle salmones (e possibilemente altere pisces) in dilutiones de un parte in plure milliones partes de aqua. Un tal substantia esseva identificate como serina, sed serina pur se provava minus displacente al salmones que aqua in que un humano habeva lavate su manos.

Alimentos.—Le U.R.S.S. produceva in 1958 un total de 2,6 milliones tonnas metric de grassia e oleo. Oleos vegetal representava plus que 46 pro cento de iste total. In 1959 on expecta un record ancora plus alte, principalmente in consequentia de un excellentissime recolta de tornasol (i.e. helianthos). Inter 1941 e 1956 le production russe de oleos vegetal ha crescite per quasi 100 pro cento. Es interessante que iste resultado esseva effectuate primariamente per un melioration del methodos e machinas de extraction. Le numero del fabricas in iste branca ha remanite plus o minus stabile. Le production de grassia e oleo in Russia es hodie inferior solmente a illo in le Statos Unite e in China. Del altere latere, le consumption de grassia e oleo per capite in Russia es minus impressionante. Illo es 30 libras per anno. In le Statos Unite illo es 61 libras e in Europa occidental 50.

Recercas de Tuberculose.—Le chimioterapia de tuberculose suffre del facto que le bacterios tuberculosic deveni resistente in le curso del tempore tanto contra le combination de isoniazido con acido para-aminosalicylic como etiam contra le combination de isoniazido con streptomycina. (Iste duo combinationes es currentemente le plus popular proque illos es considerate como le plus efficace.) Viste que le resistantia in question ha nunquam essite observate intra minus que tres septimanas post le initiation del therapia quando un sol droga es usate e que illo es retardate per le uso de duo drogas in combination, Dr. E. T. Peer de Ontario in Canada ha experimentate, usque nunc con excellentie successo, con alternante periodos de quatro septimanas de therapia per le un e le altere del duo mentionate combinationes.

Technologia.—Methano, le componente principal de gas natural, se liquifica a minus 161 C. In le porcesso illo reduce su volumine a un sex centesimo. Tamen, le pression necessari pro tener iste gas in stato liquide a plus elevate temperaturas rende impractic su transporto in grande quantitates. Iste problema ha essite resolvite per un firma american qui ha recentemente delivrate un cargo de methano a Anglaterra. Le gas in forma liquide esseva includite in tanks de aluminio, e istos se trovava sub pression atmospheric in un nave specialmente equipate pro le mantenentia de un temperatura de minus 161 C. Iste evento esseva le culmination de cinque annos de recercas technic.

Physiologia.—Le Indianos Navajo ha plus basse nivellos de cholesterol in lor sero que le statouniteses non-indian. Etiam lor incidentia de morbo cardiac es plus basse, sed isto in despecto del facto que lor consumption de grassia non differe ab illo de lor compatriotas de racia blanc. Dr. D. C. Miller del Servicio de Sanitate Public Inter le Indianos ha establite iste facto e conclude ab illo que le causas de alte nivellos de cholesterol in le sero es in parte hereditari e non exclusivemente dietari.

Navigation.—In Sveda un passage libere de glacia esseva tenite aperte le hiberno passate in le Laco Malaren per le perfusion del aqua con bullas de aere comprimate que emanava ab perforate tubos de plastic disponite al fundo del laco.

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GENERAL SCIENCE

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