

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Agricultura.—Mice radiodifusores es usate experimentalmente pro establir e mantener contacto inter le fermeros individual de Australia e lor numerose greges de oves. Le population ovin de Australia amonta a cento milliones capites. Le greges—oves nunquam quita le grege—erra liberemente a transverso le vaste pasturas de ille insula continente, a per consequente lor retrovation es frequentemente difficile. Tamen, in le futuro il pare que iste problema va devenir minus spinose. Radiodifusores, portate per le oves ductor del varie greges, va emitter signales periodic que le fermero pote recipere e usar in locar su animales al tempore del tonsion e de altere necessitates.

Ornithologia.—Aves de species insectivore es incommode a mantener in captivitate a causa del enoio de semper deber provider adequate quantitates de insectos. Tamen, al laboratorio ornithologic del Universitate Cornell on ha trovate que in loco de insectos tal aves accepta larvas de ape (que es facile a obtener e etiam a preservar). Ecce un area de collaboration inter le avi- e le apicultura.

Astronautica.—Le programma astronomic del Statos Unite include le projecto de lanciar in 1968 un dirigibile astronave circumlunar con tres passageros.

Statistica Dental.—Le population del Statos Unite possede collectivemente circa 700,000,000 non-tractate (non-plenete) cavitates dental, i.e. circa quatro per bucca individual.

Inventiones.—Un horologio esseva inventate in que micre ballas migra ab un cifra al altere pro indicar le tempore. Le horologio ha nulle agulias o—plus tosto—nulle agulias visibile. De facto, agulias conventional es presente, sed illos se trova al reverso del quadrante. Lor punctas es magnetic, e isto causa e explica le movimento del ballas.

Technologia Medical.—Le tension de sanguine intra le cerebro pote esser mesurate (indirectemente) per medio de un apparatus perfectionate per Dr. M. Thorner del Universitate Pennsylvania. Le apparatus va esser cognoscite como le Pulsensor Thorner. Illo profita del facto que le tension cerebro-sanguinee es identic con le tension in le arteria ophthalmic (le qual es le sol branca del circulation cerebral que non es confinade al interior del cranio). Un par de cameras (o cuppas) es applicate hermeticamente contra le region del arteria ophthalmic a ambe lateres. Illos contine sensibilissime transductores de ionisation que converte le fluctuationes del tension ophthalmic-arterial in signales audibile. Iste signales cessa si tosto que le pression atmosferic intra le cameras es augmentate usque al puncto de equalitate con le tension del pulsos arterial. On mesura le pression e sape que illo es identic con le tension sanguinee del arteria ophthalmic e assi del circulation cerebral. Le manovra require circa duo minutas.

Recercas de Cancere.—Es reportate ab London, Anglaterra, le uso de radioactive silicato de yttrium in loco de radioactive auro in le tractamento de cancerose fluidos intrapulmonar e intra-abdominal. Le prime experientias es promittente, sed le superioritate del nove methodo in comparation con le uso de auro non concerne le patiente. Il se tracta solmente del facto que yttrium radioactive es minus periculose pro le personal.

Antibioticos.—Le uso de antibioticos in le preservation de alimentos es multo minus commun in Anglaterra que in le Statos Unite. Le ration non es a vider in un attitude de opposition contra le methodo del parte del population anglese sed simplemente in le facto que sol-

mente 19 pro cento del menages de Anglaterra possede installationes refrigeratori. Antibioticos sin refrigeration non protege le alimentos contra le decomposition microbial.

Terminologia Technic.—Nota Dr. W. A. van Bergijk del Laboratorios Bell Telephone que le litteratura concernite con machinas que exerce temporarimente le functiones de organos del corpore suffre del facto que in parlar de renes e pulmones e altere entitates artificial, le autores tende a omittre le adjectivo in le curso de lor discussion, con le resultado que le lector in multe casos deveni confuse proque ille non sape si un termino particular designa un organo o un mechanismo. Dr. van Bergijk propone le uso del suffixo '-mimo' pro le machinas in question. Un nephromimo, per exemplo, essera alora un ren artificial. Le mesme suffixo potera etiam esser usate pro designar un modello mathematic de non importa qual organo del corpore.

Aviation.—Un nove typo de paracadita es usabile a basse altitudes. Illo es propellite explosivemente in alto e etiam se displica per un action explosive. Su descendita es conventional.

Recercas de Cancere.—Le question si le incidentia de leucemia es elevate inter infantes ab matres subjicite a roentgenographia abdominal durante lor pregnantia recipeva duo annos retro un responsa affirmative in le publicatione de un studio per Dr. Alice M. Stewart del Universitate Oxford in Anglaterra. Un responsa negative es derivate per Drs. W. M. Court Brown e R. Doll de Edinburgh, Scotia, ab un studio de 12 annos concernente 39,166 casos. In iste material le incidentia de leucemia esseva de facto levemente inferior a illo que vale pro le population general.

Astronautica.—Investigatores al Universitate California ha trovate in experimentos con muses que le incidentia de malformationes cardiovascular cresce frapantemente in le prole ab matres que respirava, durante le pregnantia, un aere a reduceite contento de oxygeno. Iste effecto esseva notate mesmo quando le provision de oxygeno esseva totalmente adequate pro le matres mesme. Si le situation es simile pro humanos, futur colonistas feminin in le luna va deber retornar in terra si tosto que ilas deveni pregnantia.

Hematologia.—Esseva trovate per tres recercatores in Chicago que le transfusion de sanguine ab restablitte victimas de arditura es benefic pro patientes qui ha similermente suffrite ardituras sed qui es non ancora restablitte. Isto debe significar que vulneres de arditura resulta in le liberation de un toxina a in le circulation e que le restablimento del patiente ocasiona le formatione de un antitoxina specific.

Physica.—Tornados a tremores de terra produce undas sonic que pote esser usate pro determinar lor sito o centro. Le undas pote haber alte intensitates, sed illos es semper de basse frequentia e ergo inaudibile. Illos es designate como undas infrasonic. Un division del Bureau de Standards statounitese se occupa de studios theoretic e experimental in iste area deponit plure annos. On ha installate un rete de microphonos receptori in le vicinitate de Washington. Si istos omnes recipe le mesme configuratione de undas, le causa es a trovar in un phenomeno natural del typo de tornados o tremores de terra (o tempestas magnetic o disturbance in le campo magnetic del terra). Pro calcular le loco de origine del undas on prende como base le differentias in tempore de lor arrivata in le sites del varie microphonos.

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GENERAL SCIENCE

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