

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Aeronautica.**—Un raffinatissime paracadita ha essite perfectionate que pote esser teledirigite con respecto al direction de su descendita. Illo ha le apparentia de un paracadita conventional excepte que un del sectiones de su superficie ha essite eliminate. Il es le position del resultante apertura que pote esser regulate per radiodirectivas; e con le position del apertura etiam le direction del descendita del paracadita e de su carga es influentiate.

**Agronomia.**—Es reportate ex Russia experimentos con semines de mais coperite de paraffin. Le methodo pare proteger le semines contra fungos e bacterios e rende possibile plantar los plus precocemente, a un tempore quando le terra es ancora multo frigide. Le frigidio non preveni le initiation del processo germinatori, secundo le reporto russe. Iste reporto etiam nota que duo travaliatores pote compler le paraffination de plus que 500 libras de mais in un hora.

**Archeologia.**—Modernissime instrumentos electronic—concepitate al uso in recercas atomic o in studios del corpores celeste—es usate a bon successo in multe areas de exploration archeologic. Un exemplo es le traciamento del muro del citate de Sybaris in Italia (que esseva destruite in le sexte seculo ante nostre era). In ille region le tamen e le stratos natural sub illo es magnetic. Tamen, le muro de Sybaris, hodie subterranean, esseva construite ex materiales non-magnetic, de maniera que le sensibilissime instrumento cognoscite como le magnetometro protonic poteva esser usate pro traciare le curso de illo sin ulle excavation. Un simile caso es le precise location de tumbas etrusc le quales poteva esser examinate in detalio sin le uso de instrumentos excavatori per le introduction de un apparatusa optic via un micre apertura de foramento.

**Astronautica.**—C. L. Barker Jr. de Huntsville, Alabama, ha recipite un patente pro le invention de un apparatuso que simula le absentia de peso. Le apparatuso, destinata pro le trainamento de astronautas, consiste de un vehiculo, un pista circular, e un pista vertical. Le vehiculo es accelerare rapidamente in le pista circular usque ill attinge le rapiditate de 200 millias per hora. Alora illo es divertite al pista vertical. Durante le subsequente ascendita e descendita le peso del occupantes del vehiculo es nullificate pro un maximo de 30 secundas.

**Astronomia.**—E. Chavira del Universitate Mexico ha discoperite un brillante supernova in le constellation Virgine. Le brillantia intrinsec del supernova, nunc a su maximo, excede per 200,000,000 vices le brillantia de nostre sol. Nonobstante, illo es del magnitudine 13, e es visibile solamente per medio de un telescopio. Le galaxia in que illo se trova es si inconspicue que illo ha nulle nomine e mesmo nulle numero de identification.

**Cardiologia.**—Un methodo pro le inspection visual del interior del corde, non requirente le aperimento chirurgic del thorace, esseva disveloppate e es reportate per duo medicos svede. Le methodo utiliza un catheter que es introduce in le auricula dextere via un vena tappate justo supra le osso clavicular. Al puncta del catheter se trova un microsystema optic de lentes e speculos e un ballon que pote esser inflate pro reprimer le sanguine in le auricula. Le prime labores in le disveloppamento de iste nove adjuta de diagnose cardiologic esseva effectuate in animales. Tamen, le methodo ha jam essite emplateate a bon successo in patientes human. Illo non reimplaciara altere methodos sed supplementa los.

**Defensa Civil.**—Le statounitese Bureau de

Standards ha publicate un guida pro le construction de refugios de protection contra le precipitation atomic. Viste le apathia que characterisa currentemente le attitude del publico american verso problemas de defensa civil, on non expecta que le libro va devenir un bestseller.

**Medicina Generali.**—Drs. R. A. Camerini-Davalos e A. Marble del Schola Medical Harvard reporta que inter 1.965 diabeticos tractate con tolbutamido durante periodos de un mense usque a 5 annos, il habeva 432 casos de insuccesso secundari, i.e., successo initial durante al minus un mense, sequite per insuccesso. In tal casos insulina remane le melior medication disponibile.

**Oceanologia.**—Un microsubmarino (de minus que 6 m de longor e minus que 2 m de altor) es in uso in recercas oceanologic. Le nave porta un equipa de duo personas, i.e. normalmente un ingeniero-pilota e un scientista-observator. Illo pote descender a profundores de usque a 80 m. Su velocitate maximal es 6 nodos al superficie a 5 nodos in motion submarin. Su plus importante (e interessante) characteristica es su dozana de oculos de bove que provide un excellent grado de visibilitate.

**Ornithologia.**—Dece-tres species de aves american es in grave periculo de extinction. In le majoritate de iste casos, minus que cinquanta individuos supervive per specie. Al minus 27 altere species es confrontate con le mesme fato si le currente methodos de utilizar terrenos progredere.

**Pharmacologia.**—Le droga somnifere thalidomido esseva supprimate, post su previe admission in le mercatos german e britannic, quando il esseva demonstrate que futur matres, usate lo durante le precoce phases del pregnantia, parturiva infantes con sever malformaciones physic. In West-Germania le droga ha causate un estimate 400 malformate nascentias. In Britannia on expecta ancora 800 tales ante le fin del currente anno. Le malformaciones assi causate es non-mortal in circa 50% del casos. Le resultante invalidismo in le superviventes es generalmente sever. Anormalitates de pulmon, hepate, ren, e altere organos interne es etiam non rar, sed—estraniemente—illos es nunquam incontrate in infantes qui non exhibi malformate extremitates, durante que malformation externe con normalitate interne es frequente.

**Physica Nucleari.**—Satellites circumterrestre artificial, del typo usabile como station de relais de telecommunication, pote esser construite con le uso de strontium-90 como fonte de energia de radiodiffusion in loco del plus conventional cellulas solar. Un generator de 60 watt con energia ab strontium-90 haberea un peso de circa 60 kg e un vita active de 20 annos o plus.—Reporto de Dr. J. G. Morse del Compania Martin a Baltimore, Maryland.

**Recercas de Cancere.**—Un promittente methodo pro le segregation preliminar de subjectos suspecte de haber cancro (o altere disordines) del larynge in stadios precocissime esseva elaborate in le laboratorios recercatori Cambridge del statounitese fortias aeree. Le methodo consiste in le analyse, effectuate per medio de computatores electronic, del formas de unda in le parlar rutinari del subjecto examinate. Ille formas de unda es tirate, per medio de un oscilloscopio, ex le sonation de un registration vocal a banda magnetic. Le theoria al base del methodo es que le formas del undas in un voce particular depende del stato del chordas vocal. Un stato pathologic del chordas debe reflecter se in anormal formas de unda.

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## GENERAL SCIENCE

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