

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

► **Radio.**—Le Armea Statounitese ha un batteria que le soldato pote portar como un specie de vesta sub su jaco e que es satis forte pro le requirimentos standard de radiodiffusores e -receptores portabile. Illo consiste de multiple elementos sic que es claudite in plastico de qualitate flexibile. Sub conditiones arctic le batteria-vesta ha un vita de 20 horas gratias al temperatura corporee del soldato. Sub le mesme conditiones, batterias conventional dura solmente 2 horas.

► **Physica.**—Circa 50 atomos de elemento 102 ha essite synthetisate per un gruppo international de scientistas per subjicer le rar isotopo curium-244 (contribuite per le americanos) a un bombardamento de carbon-13 (contribuite per le angleses) in un cyclotron (rendite disponibile per le svedos al Instituto Nobel a Stockholm). Le angleses e americanos propone nobelium como nomine del nove elemento que esseva producite in le forma del isotopo-253. Iste isotopo ha un medie vita de 10 minutas.

► **Virologia.**—Recercas al Universitate California ha demonstrate le correctitude del theoria que viruses destrue cellulas per fortiar los a "committer suicidio enzymatic," i.e. a producer enzimas que ha le potentia de dissolver le pariete del cellulas mesme. In le experimentos hic reportate le cellulas esseva bacterios. Le enzima producite per illos esseva virolysin. Le discoperta es importante como guida in le lucta contra morbos viral. Il pare plausibile supponer que le effectos de un virus pathogenic pote esser neutralisate per un antagonista chimic del enzima producite per cellulas que le virus ha invadite.

► **Tuberculose.**—Reporta Dr. A. J. H. Tomlinson del Servicio Laboratorial de Sanitate Public a London que technicos de laboratorio es frequentemente exponite al risco de infection tuberculosic quando illes aperi le bottilias in que culturas diagnostic de bacterios de tuberculose es preparate. Le periculo resulta del succussion del bottilias quando le coperculos es tornate pro remover los. Dr. Tomlinson propone le remedio de coperculos de plastico que pote esser perciate per medio de un filo metallic calide.

► **Bacteriologia.**—Le cultura laboratorial de bacterios de tuberculose es accelerate remarcabilemente per le addition de dilutissime aqua de nuce de coco al medio cultural standard. Iste discoperta es reportate per un gruppo de scientistas in India. Effortios a isolar le agente specificamente responsabile pro le effecto acceleratori pare indicar que il se tracta de un polysaccharido. Le virulentia del bacterios assi producite non differe ab alteres.

► **Psychologia.**—In le jornal del Societate de Semantica General, Dr. S. I. Hayakawa discute le symbolismo sexual del contemporanee automobile american. Su these central es que le satisfaction que certe homines trova in le possession e le maneamento de un machina de potentia excessive representa un forma de infantilismo que on debe comparar con le satisfaction que pueros de septe annos de etate trova in le possession de un casco de viage astral.

► **Cosmonautica.**—Satellites terrestre artificial viageante a altitudes de non plus que aproximativamente 100 km es considerate como realisabile per plure expertos del Armea Statounitese. A ille altitude, le oxygeno molecular del atmospha es decomponite per le action del sol e appare como oxygeno atomic. Secundo allusiones facite per un representante del Armea, il pare que on ha trovate un catalysta solide

que induce le oxygeno atomic a restabli se como oxygeno molecular. Le energia liberate in iste processo esserea un inexhaustibile fonte de fortia propulsori pro satellites ionospheric que haberea un grande importantia como stationes de observation scientific.

► **Hormonologia.**—Le non infrequente facto que canarios importate a in le Statos Unite cessa cantar alicun septimanas post lor arrivata in ille pais ha parite justificar le suspicion que tal cantatores transitori es de facto femininas que ha essite virilisate temporarimente per hormones masculin. Experimentos al Collegio Agricultural de Kansas ha demonstrate le possibilitate de facer canarias cantar per medio de hormones masculin. Le experimentos non prova necessarimente que iste forma de deception es vermente practicate in le commercio canarian.

► **Virologia.**—Biologos del Armea Statounitese reporta que illes ha injicte leve doses del virus de certe formas de encephalitis a in vespertiliones con le sorprendente effecto que (1) le concentration del virus in le vespertiliones attingeva extrememente alte nivellos intra 3 dies, (2) le vespertiliones monstrava nulle reaction pathologic, e (3) le virus desapareva ab le vespertiliones intra 26 dies. Le clarification de iste mysterio va possibilmente portar con se un clarification indirecte de certe questiones de immunologia general.

► **Biochimia.**—Al novemente installate Laboratorio de Recercas Cardiovascular al Universitate California, Dr. W. F. H. M. Mommaerts conduce delicatissime investigationes in re le chimismo que acompania le activitate del musculo del corde. Un de su experimentos require le subitissime congelation (intra 0,003 secundas) de duo pecias de vive musculo cardiac de tortuca—le un in stato de reposo, le altere in stato de stimulation electric—e lor subsequeante analyse chimic.

► **Dactyloscopia.**—Le experto dactyloscopic Murakami Keitaro de Tokio reporta que le examine de criminales presente al bombardamento atomic de Hiroshima ha demonstrate que imprantas digital remane inalterate sub le effecto de non importa qual grado de radioactivitate.

► **Rheumatologia.**—Dr. N. Rothermich de Columbus (Ohio) e Dr. S. Gifford de Boston reportava al recente Congresso International de Rheumatologia a Toronto certe resultados preliminar de un investigation statistic in re le correlation inter typos characterologic e incidencia de arthritis. Le arthritic typic pare distinguer se per un alte senso de responsabilitate ethic e de justitia insimul con un forte tendentia auto-accusatori. Similemente sorprendente es le (ben documentate) assertion que alienatos es raramente arthritic.

► **Linguistica.**— Duo scientistas del Statounitese Bureau de Standards a Washington ha analysate 550 complete phrases anglese, seligite al hasardo in documentos scientific, pro determinar le frequentia de varie constructiones fundamental. Tal information es importante pro le theoria e le practica del manipulation de material verbal per computatores electronic (in le cerca de patentes, le traduction mechanic, etc.). Le 550 phrases exhibiva 335 differente structuras. Le plus frequente structura occurreva solmente 12 vices. Le investigation va esser continuata pro determinar si e in qual mesura le numero del differente structuras representate in textos anglese continua crescer con plus grande numeros de phrases examine.

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### GENERAL SCIENCE

## Reading Interlingua

► YOU CAN READ Interlingua if you had no more than one semester of high school French or Spanish or Latin and flunked it. You can read and understand a great deal of it even if you had never had contact with any foreign language.

Send this page to an acquaintance abroad and tell him that he can get additional information about Interlingua from Alexander Gode, SCIENCE SERVICE's Interlingua Division, 80 E. 11th St., New York 3, N. Y.

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### GEOLOGY

## "Recent" Means Thousands of Years Old

► "RECENT" to a historian may mean the last few years, but to a geologist it is a matter of 4,000 to 10,000 years.

There is discussion as to just how to designate the latest deposits in the earth's crust, the layers of soil, mud and sand laid down in the lakes, glaciers, seas or formed by wind action.

The most immediately preceding epoch, called the Pleistocene, is commonly regarded as lasting about 2,000,000 years. This is the age of glaciers, although by this criterion alone the earth is still in the Pleistocene because some glaciers still exist.

A group of U. S. Geological Survey geologists, R. B. Morrison, James Gilluly, G. M. Richmond and C. B. Hunt, discuss in the *American Journal of Science* (June) whether geologic time should extend down to the present under the name of Pleistocene, concluding that there is real need for the term "Recent" as a geological time division, even though it has existed for a much shorter time than most geologic epochs.

The Pleistocene and the Recent are two epochs of the Quaternary period in geologic nomenclature. Other names used for the Recent are the Holocene and Postglacial.

Both paleontology and archaeology supplement physical geology in subdividing Recent deposits and setting them apart from those of the Pleistocene. For instance, the mammoth and ground sloth disappeared before Recent times began.

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