

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Statistica de Population.**—Depost 1950, le population del Status Unite ha crescite per 24.500.000 capites. In 1958 le augmento esseva 2.860.000. Le total es hodie 175.600.000. Assi le population statunitense cresce per un factor de 1,7 pro cento per anno.

► **Recercas de Cancere.**—Dr. R. McMurdy, medico de sanitate public in le contato de Norfolk in Anglaterra, opina que le governments del mundo hesita de acceptar le conclusiones confirmative de 19 extense investigationes international del question de si o non il existe un relation causal inter le habitude del fumar e le incidentia de cancro pulmonar, exclusivemente a causa del revenitos financiari qu es producite per le taxas de tabaco. Attribuer le correlation positive inter le consumption de tabaco e le occurrence de cancro pulmonar a simplemente un coincidentia es—secundo Dr. McMurdy—exactemente como si on insisteva que le association inter le morte de un individuo e le facto que ille ha bebite acido prussic es plus tosto un association de coincidentia que un association de causa e effecto. Dr. McMurdy signala que le taxas de tabaco in Anglaterra amonta annualmente a vinti milliardos dollars (plus que le costo total del famose servicio de sanitate public in ille pais). Dr. McMurdy etiam signala que solmente tres epidemias in le historia del humanitate—le epidemias de peste in 1348 e 1665 e le epidemia de influenza in 1918—ha causate (temporariamente) un mortalitate plus grande que le mortalitate causate (permanentemente) per cancro pulmonar.

► **Technica Medical.**—Chirurgos del Universitate Melbourne experimenta con un camera de television que es satis micre pro esser inglutite per un patiente. Le prisas del camera pote esser projectate con un magnification de 30 a 40 vices le dimensiones del tubo de imagine. Certe elementos del apparatus es importate ab Germania. On se promitte ab illo grande avantiaamentos in le diagnose de cancro e de altere morbos interne. Le Consilio Australian pro le Lucta Contra le Cancere ha pro 1959 un budget de subventiones amontante a un total de \$225.000. Plus que un tertio de iste total—\$80.000—va esser usate pro perfectionar le camera de television intracavitari.

► **Scientia General.**—Annualmente le “Cerca de Talentos Scientific” del Fundation Educational Westinghouse (conducite per “Clubs de Scientia in America,” un del activitates de “Science Service”) resulta in le congregation in Washington de 40 promittente scholares de schola secundari, qui es le finalistas in le competition pro stipendios de un valor total de \$34.250. Iste 40 finalistas es seligite ex 400 semi-finalistas, le quales—de lor parte—es le crema de un massa de plure milles scholares initialmente participante in le concurso. A parte le examines requirite, un satis extense documentation de ricerca individual debe esser submitte per omne concurrente. Multes inter le labores submitte per iste adolescentes de inter 15 e 17 annos de etate e de ambe sexos reflecte un astonante maturitate non solmente technic e scientific sed etiam critic e mesmo philosophic. In 1959, un del finalistas in lo que es le “Decce-Octave Cerca Annual de Talentos Scientific”—Joseph P. Vajk de Princeton Junction in New Jersey—ha redigite un articulo critic in que ille presenta le these que in le historia del vita terrestre, periodos de evolution accelerate esseva le resultado de augmentos de radioactivitate directemente responsabile pro le occurrence de plus numerose e plus marcate mutationes. Vajk crede que le effecto del augmento de radioactivitate in nostre ambiente va resultar in le

evolution de un specie de super-homine nietzschean, e ille signala que le precio a pagar pro un tal progresso va esser le production (e subsequentemente le destruction) de innumerable mutationes (human e animal) de viabilitate inferior. Vajk comprende que omne isto pone un problema ethic de grande seriositate, sed ille es satis modeste—de novo un signo de maturitate—pro non voler occupar se de ille problema al tempore presente.

► **Aeronautica.**—Al aerodromo London, aves—e specificamente laros—constitue un ver plaga: Illos se captiva in le propellers o es sucite a in le motores a reaction. Iste secunde possibilitate es particularmente periculose, e infelicemente le aves pretere aviones a reaction proque illos has discoperite que istos emana un confortabile calor.

► **Agricultura.**—Promittente successos es reportate ab California in le “guerra bacteriologic” contra insectos de nocivitate agricole. On labora con *Bacillus thuringiensis*, que es non solmente efficacissime contra le insectos, que illo affice, illo etiam pare esser multo specific, i.e. illo destrue varie insectos de character nocive e affice non del toto alteres que es utile. Il pare que le infection per *B. thuringiensis* resulta in le formation de un toxina crystallin in le organos gastric del insectos e que iste toxina es le causa immediate del morte del insectos. On va tentar le synthese laboratorial del toxina, proque illo representarea un insecticida vermente ideal. Usque nunc nulle disveloppamento de resistentia contra illo ha essite notate in ulle del insectos studiate. Le uso de *B. thuringiensis* como insecticida ha essite sanctionate per le autoritates, sed illo non essera disponibile commercialmente ante le anno 1960.

► **Astronautica.**—Le ballonistas del marina statunitense que ascendeva in un ballon de ricerca in plen lumine diurne a un altor de plus que 25 kilometros ha reportate que illac le celo in supra de illes esseva completamente nigre e que nulle corpore celseste esseva visibile in illo. On ha calculate que a un altor de alicun kilometros de plus, plure planetas e astros devenirea discernibile pro quicunque sape ubi illos es situate. A un altor de 100 km, le celo—mesmo a mediedie—essera perseminate de astros, plus clar e bellemente que le plus clar e belle celo nocturne unquam vidite ab le superficie del terra.

► **Genetica.**—Duo recercatores al britannic Collegio Veterinari Regal ha studiate le fenomeno del preferentias de gusto in vitellos. Per usar in lor studios vitellos que esseva geminos identic, le recercatores ha trovate que preferentias de gusto individual es—al minus in vitellos—un fenomeno hereditari que es quasi completamente independente de influentias del ambiente. Un tracto commun de omne le vitellos esseva que illos prefereva le gusto dulce de glucosa a gustos salin, acide, o amar. Sed—e isto es ancora plus interessante—omne le vitellos rejiceva omne gustos de alte intensitate, mesmo le gusto dulce de glucosa.

► **Glacierologia.**—Bullas de aere includite in le glacia arctic e antarctic in stratos de varie etates va esser analysate con respecto a lor contento de radioactivitate, con le objective de determinar si le radioactivitate del atmosfera terrestre ha essite augmentate per nostre experimentos con explosiones atomic.

► **Geophysica.**—Le studio del orbita de Vanguard I demonstra que le terra ha le forma de un pira.

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GENERAL SCIENCE

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