

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Armamento Nucleari.—Sir William Penney, preside deputate del Britannic Autoritate de Energia Atomic, opina que un rete de 20 stationes de inspection sufficerea pro deterger tests atomic effectuate non importa ubi in le mundo per un nation desirante violar un accordo international visante a illegalisar tal tests. Le Statos Unite, in su corrente negotiationes con le U.R.S.S., insiste que un rete de 180 stationes de inspection es necessari. Il es probable que le optime numero in efficacia e adequata es inter le duo mentionate extremos.

Drogas.—Il es non ancora cognoscite si thalidamida exerce su tragic effecto super le feto in matres usante ille droga (1) per un mecanismo de mutation cellular o (2) per un disturbance directe del mecanismo de crescentia. Si le prime de iste duo theoreticamente possibile explicationes es le correcte, le question se subleva si thalidamida, quando usate per masculos non es tanto periculose como quando illo es usate per lor maritas. Iste question es currentemente sub investigation per scientistas del governmento stato-unite.

Immunologia.—Lacte, human, injicite in muses (in experimentos conducte al Universitate Pennsylvania) resultava in un potentiation del formation de anticorpo defensive contra injectiones de virulente staphylococcus. Iste constatacion corrobora additionalmente le these que le alimentacion natural del infante human es superior al alimentacion artificial.

Insecticidas.—In le lucta contra nocive insectos, venenos chimic se ha provate duplemente dubitose: Lor adverse effectos non es in omne casos restringite a insectos, e frequentemente illos perde lor toxicitate pro le insectos in le curso del tempore, proque le insectos se habitua a illos. Plus promittente es le methodos, currentemente sub extense investigation, de eradicar o decimar certe species de insectos per sterilisar le masculos e assi indirectemente le ovos deponite per le contemporanee generation de femininas. In effectuar iste typo de sterilisation on se servi de irradiation o de chimo-sterilisantes, i.e. de methodos que require ancora multe recercas scientific, proque le correspondente biomechanismos es non ancora ben cognoscite. Un major difficultate in omne isto es que le varie possibile e promittente methodos debe esser testate in le campo, ubi le evaluation del resultados perde omne signification si le population del insectos sub attacco non es isolate contra repletion per immigration ab altere regiones. Le statounitese Servicio de Recercas Agricultural, que se occupa intensesmente de iste problemas, utiliza in su programma de pertinente recercas insulas in varie partes del mundo. Sed insulas appropriate al uso pro iste objectivos es difficile a trovar proque illos debe satisfacer complexe requirimentos. Illos debe haber un population native del insectos que on vole combatter, e illos debe esser locate a adequate distancias ab altere regiones in que le mesme specie de insectos es in existentia.

Materiales.—Termitas—famoses pro lor capacitate de destruer ligno—monstra un marca- te interesse pro certe synthetic resinas thermo- plastic, incluse polyethyleno e chloruro vinylic. Viste que tal plasticos es usate como isolantes de circuitos electric (e alteremente in implacimientos al extero), le gravitate potential del problema es obvie. Illo ha essite notate particularmente in Australia. On pote contrariar iste nove destructivitate del termitas per incorporar chimoinsecticidas in le plasticos, sed un tal procedimento introducere nove complexos de complicationes e periculosos.

Pharmaceutica.—Le sterilisation de productos chimic destinate al uso como medicamentos es theoreticamente effectuable per lor exposition a radios ionisante. Le methodo es jam in uso in Mexico. In le Statos Unite on hesita ancora proque le possibilitate de un retention de radioactivitate in le drogas e de un reduction de lor potentia in consequentia del irradiation ha non ancora essite investigate satis extense- e satis criticamente. Le uso de irradiation ionisante per le fabricantes de instrumentos medical in sterilisar lor productos ante le lanceamento de illos al mercato es etiam cognoscite in le Statos Unite. Il se tracta hic evidentemente de un technica applicabile solmente a instrumentos destinate a esser discartate post un sol uso, i.e. syringas, catheteres, etc.

Recerca de Cancere.—Al Congresso Cancerologic International a Moscova, professor L. A. Zilber del Instituto Gamaleya del sovietic Academia del Scientias Medical parlava de accordo con le opinion del majoritate del congressistas quando ille admitteva que le progresso complete non justifica un alte entusiasmo sed etiam quando ille continuava: "Tamen, nos cognosce al minus le questiones al quales nos debe trovar le responsas."

Recerca de Cancere.—Es reportate independentemente ab Russia e ab Sveda promittente progressos in le "actinochirurgia" de cancere, i.e. in un technica in que substantias radioactive es deponite in le vulnere chirurgic e lassate illac durante 24 a 48 horas. Le objectivo del methodo es supprimer per irradiation le "semination" del cellulas cancerose que escappa al cultello chirurgic.

Recerca de Cancere.—In Danmark, 600.000 pueros e pueras de etates de 10 annos e plus ha essite subjicte a un intense campania (prophylactic e therapeutic) de propaganda e information in re le relation inter le fumar de tabaco e le periculo de cancere pulmonar. Un effecto del campania ha essite le declino del consumo de tabaco per le parentes del juveniles.

Recerca de Cancere.—Le localisation de tumores cerebral es currentemente effectuate in le majoritate del casos per medio de radioactive traciante, i.e. principalmente solutiones de radioarsenico o de radiocupro. Duo recercatores in Israel propone le substitution de fluor-18 que ha le avantage de un rapidissime disintegration, con le resultante possibilitate de restudiar le mesme patiente plure vices post intervallos de solmente pauc horas.

Satelliteria.—Es non cognoscite le precise numero del statounitese satellites de observation currentemente in orbita con instrumentos de photorecognoscentia capace a deteger lanceamentos de projectiles intercontinental e detonationes de bombas atomic, sed certe indicios permette le conclusion que verso le fin del anno corrente lor ensemble va constituer un complete e efficace systema de detection e premonition. In certe circulos del Statos Unite on trova sorprendente que iste satellites ha non essite condemnate per le governmento sovietic como "satellites de espionage". Le explication de iste silentio russe pare esser que le russos ha in orbita un simile systema de satellites de recognoscentia.

Statistica de Tabaco.—In le Statos Unite, discipulos de schola secundari fuma regularmente con un frequentia de un inter quatro in le caso de pueros e de un inter octo in le caso de pueras. Le base de iste assertion es le questionage de un specimen representative de 22.000 discipulos. Iste studio esseva effectuate per J. W. Levenez pro le Societate Cancerologic American.

• Science News Letter, 82:116 August 25, 1962

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 have never had contact with any foreign language.

Twenty-three medical journals regularly publish in Interlingua abstracts of their original papers.

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.

Financial contributions to the Interlingua program are needed.

• Science News Letter, 82:116 August 25, 1962

SCIENCE NEWS LETTER

VOL. 82 AUGUST 25, 1962 NO. 8

Edited by WATSON DAVIS

The Weekly Summary of Current Science, published every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N.W., Washington 6, D. C., North 7-2255. Cable Address: SCIENSERVIC.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; ten or more copies in one package to one address, 7/2 cents per copy per week; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage. Change of address: Three weeks notice is required. Please state exactly how magazine is addressed. Include postal zone number.

Copyright © 1962 by Science Service, Inc. Republication of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicated services issued by Science Service. Science Service also produces and distributes THINGS of science (monthly), produces and publishes books, and conducts the National Science Youth Program.

Printed in U.S.A. Second class postage paid at Washington, D. C. Established in mimeograph form March 13, 1922. Title registered as trademark, U.S. and Canadian Patent Offices. Indexed in Reader's Guide to Periodical Literature, Abridged Guide, and the Engineering Index. Member of Audit Bureau of Circulation.



SCIENCE SERVICE

The Institution for the Popularization of Science organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: William W. Rubey, University of California at Los Angeles; Wallace R. Brode, Washington, D. C. (Treasurer); Douglas Whitaker, Rockefeller Institute for Medical Research. Nominated by the National Academy of Sciences: Harlow Shapley, Harvard College Observatory; Philip Bard, Johns Hopkins University; Henry Allen Moe, John Simon Guggenheim Memorial Foundation. Nominated by the National Research Council: Leonard Carmichael, Smithsonian Institution (President); John R. Dunning, Columbia University; Benjamin H. Willier, Johns Hopkins University. Nominated by the Journalistic Profession: Michael J. Ogden, Providence Journal-Bulletin; O. W. Riegel, Washington and Lee University; Ralph B. Curry, Flint Journal. Nominated by the Scripps Estate: Edward J. Meeman, Memphis Press-Scimitar; Ludwell Denny, Washington, D. C.; Charles E. Scripps, Cincinnati, Ohio (Vice President and Chairman of Executive Committee).

Staff—Director: Watson Davis. Assistant Director: Dorothy Schriver. Writers: Ann Ewing, Lillian Levy, Faye Marley, Vincent Marteka, William E. Small, Judy Viorst. Science Youth Division: Joseph H. Kraus, Leslie Watkins. Photography: Fremont Davis. Production: Priscilla Howe, Marcia Nelson. Syndicate Sales: Hallie Jenkins. Conferences: Jane Marye. Librarian: Margit Friedrich. Interlingua Division in New York: Alexander Gode, 80 E. 11th St., GRamercy 3-5410. Advertising Manager: Fred A. Moulton, METropolitan 8-2562, Washington, D. C.