

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Technologia Maritime.—Naves pumpero, usate in combatter incendios in altere naves e in installationes de porto, es normalmente multo impedito in lor effortios de assistentia per le facto que le columnas de aqua que illos ejice genera un effecto de reaction con le resultado que lor movimientos deveni quasi ingovernabile. In Swansea, Grande Britannia, on ha nunc ponite in servicio un nove nave pumpero que ha motores permittente a illo movimientos intentional in omne directiones. Isto significa que on ha nunc un typo de nave pumpero que pote neutralisar omne impulso motori que es producite como reaction al ejection de columnas de aqua in le effortio de extinguir un incendio.

Agricultura.—In le lucha contra nocive insectos on investiga de plus in plus intensemente methodos que pote esser designate como biologic per contrasto con le methodos chimico-toxic le quales non pare meritar le confidentia ponite in illos in le passato. Le statounitese Departamento de Agricultura conduce currentemente experimentos comparative in duo micre insulas del Pacifico. In un caso grande numeros de insectos mascule de un certe specie de peste de fructo es capturate e sterilisate ante lor liberation, con le sperate effecto que le ovos de correspondentemente grande numeros de femininas remane infertile. In le altere insula on usa le methodo de attraher e occider masculos ante que illos attinge le stato de maturitate sexual.

Recercas de Cancere.—Le detection de cancro del bucca es possibile super le base de frottis ab persistente lesiones buccal e non require le obtention de specimens biopic. Le technica de iste simplicite methodo diagnostic—multo apte al uso in le sala de consulta del dentista de practica private—esseva disveloppate per specialistas al Hospital Brooklyn del statounitese Administration de Veteranos.

Archeologia.—Le etate de objectos facite de obsidiana pote esser determinate per mesurar le spissitate del strato superficial in que aqua ha penetrare. Obsidiana es un specie de vitro vulcanic que es naturalmente disproviste de omne contento de aqua. Un objecto sculpturate ex illo es ergo libere de aqua al momento de su completion, sed illo comencia immediateamente a formar un progressivemente plus spisse strato exterior de hydratation.—Variationes del humiditate atmospheric in le curso del seculos reduce le exactitude del methodo que require ancora multe cercas ante que illo pote esser applicate in le practica archeologic.

Astronautica.—Secundo Dr. J. A. Van Allen, le cintura de radiation que circumjace le terra e que porta le nomine de ille scientista del Universitate Statal de Iowa va disturbar le funcionamiento de batterias solar in satellites artificial equipate con illos. Le radiation va alterar le structura vital del semiconductores que es un constituyente essential de tal batterias. Illo va etiam nigrar le fenestras de quartz que admittit le lumine solar al interior del batterias.

Physica Atomic.—In le vicinitate de Vienna in Austria, le Agentia International de Energia Atomic construe un laboratorio pro le analyse de specimens de aere, aqua, solo, alimentos, etc. pro lor contento de radioactivitate. Omne isto es parte de un programma de regulationes de securitate in le utilisation pacibile del energia atomic.

Gynecologia.—Dr. H. A. Schwartz de Chattanooga, Tennessee, reporta que le melior "porcos de India" pro tests de pregnantia post non-occurrentia del fluxo mensual es le patientes

mesme. In le passato tal tests esseva conductite in conillos, ranas, e altere animales, sed Dr. Schwartz ha discoperite un plus simple methodo que non require ulle animal laboratorial del toto. Il pare que feminas pregnante e feminas non-pregnante reage multo differentemente a doses experimental del hormon feminin progesterona. In feminas non-pregnante le hormon reactiva le fluxo mensual. In feminas pregnante iste effecto remane absente. Le methodo es absolutamente innocente proque le sol effecto possibile de progesterona in feminas pregnante es que illo promove un plus firme implantation del ovo fertilisate.

Inventiones.—He essite patentate un bicycletta in que le rota anterior pote esser activate per "pumpar" le manicas. Le rota posterior es activate conventionalmente. Iste invention esseva inspirate per le desiro de meliorar le valor gymnastic del bicyclettismo: Il nunc es possibile bicyclettar pro exercer le musculos del bracios e non solmente illos del gambas.

Computatores Electronic.—Nota Dr. S. N. Alexander del statounitese Bureau de Standards a Washington (1) que le russos possede nulle computatores electronic de efficacia comparable a illos fabricate in le Statos Unite e (2) que le russos produce excellent resultados con lor non-excellent machinas. Conclude Dr. Alexander que le russos labora in iste campo con homines melio preparate e plus experte.

Theoria de Evolution.—Le idea del neobiogenese repetitive e continue—generalmente considerate como morte de post un seculo o plus—ha essite reformulate per Dr. J. Keosian del Universitate Rutgers in New Jersey. Dr. Keosian argue que certe algas e bacterios e super toto le varie typos de virus es difficile a placiar in le catena del evolution si on suppose que omne formas de vita terrestre ha descendite ab un sol "generation spontanee." Secundo Dr. Keosian, le hodie existente algas, bacterios, e virus non pote haber supervivite de post le tempore del prime biogenese terrestre, proque in tanto que le prime primitive formas de vita non ha avantiate verso un organisation plus complexe, illos debe haber perite in le lucha del existentia que demanda progresso per demandar un continue adaptation a nove conditiones. Post iste reflexiones il pare plausibile a Dr. Keosian supponer que nostre hodie algas e bacterios e certo nostre multiple formas de virus es de origine recente e possibilmente contemporanee.

Astronautica.—Le polonese servicio de prensa PAP reporta que Professor Jan Gadomski de Varsovia crede haber informaciones indicante que le russos plana lancear un projectil al planeta Marte in le curso del veniente septimanas. Lanceate le 16 de april, le projectil attingerea Marte le 30 de decembre.

Instrumentos.—Un recentemente patentate instrumento mesura le pression de un gas al interior de un receptaculo sin entrar in illo e sin que illo debe esser aperite. Le receptaculo debe esser transparente. Le instrumento functiona super le base del principio que fascas de lumine es diffrangite per molculas de gas. Per mesurar le quantitate de lumine afficite per le diffraction, le instrumento permitte le calculation del pression del gas a transverso le qual le lumine ha passate.

Geophysica.—Datos ex observations del orbita de satellites american ha ducite le mathematico sud-african D. G. Parkyn al conclusion que a un altitude de circa 300 km le densitate del atmospha supra le polos es solmente circa 65% de illo supra le equator.

Science News Letter, March 26, 1960

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 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.

Financial contributions to the Interlingua program are needed.

Science News Letter, March 26, 1960

SCIENCE NEWS LETTER

VOL. 77 MARCH 26, 1960 NO. 13

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: SCIENCE SERVC.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; 3 yrs., \$14.50; ten or more copies in one package to one address, 7½ 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. When ordering a change please state exactly how magazine is now addressed. Your new address should include postal zone number if you have one.

Copyright © 1960 by Science Service, Inc. Reproduction 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 publishes CHEMISTRY (eight times a year) and THINGS of Science (monthly).

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 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, U. S. Geological Survey; Wallace R. Brode, National Bureau of Standards; 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; John R. Dunning, Columbia University; Benjamin H. Willier, Johns Hopkins University. Nominated by the Journalistic Profession: Michael J. O'Gaden, Providence Journal-Bulletin; O. W. Riegel, Washington and Lee University. Lee Hills, Detroit Free Press. Nominated by the Scripps Estate: Edward J. Meeman, Memphis Press-Scimitar; Frank Ford, Washington, D. C.; Charles E. Scripps, Cincinnati, Ohio.

Officers—President: Leonard Carmichael; Vice President and Chairman of Executive Committee: Charles E. Scripps; Treasurer: Wallace R. Brode; Secretary: Watson Davis.

Staff—Director: Watson Davis. Writers: Helen Buechl, Ann Ewing, W. T. M. Grigg, Richard Littell, Allen Long, Jane Marys, Tove Neville, Gloria Tefft, Marjorie Van de Water. Science Youth Division: Joseph H. Kraus, Dorothy Schriver, Shirley Moore. Photography: Fremont Davis. Production: Priscilla Howe, Marcia Nelson. Syndicate Sales: Hallie Jenkins. Interlingua Division in New York: Alexander Gode, 80 E. 11th St., GRamercy 3-5410. Advertising Manager: Fred A. Moulton, METropolitan 8-2562.