

# SCIENTIA INTERNATIONALE

## NOVAS DEL MENSE IN INTERLINGUA

**Recercas de Cancere.**—Deces annos de recerca al Laboratorios National Brookhaven ha resultate in incoragiante successos in le tractamento de maligne tumores con (lente) neutrones thermic. Le principio del methodo es que un nube de neutrones es dirigite verso le organo tumoric ubi illos es arrestate per atomos de boron que ha prevemente essite injicite in le circulation del subjecto. In iste arresto le neutrones se decompone in un particula alpha e lithium-7 (que ambe ha nulle radioactivitate), e in tanto que le decomposition occurre in un cellula maligne, isto es destruite. Le tractamento es applicate un sol vice. Illo promitte devenir importante in le caso de tumores que—a causa de lor sito—non es accessibile a altere formas de therapia. In muses con tumores experimental le methodo se ha monstrate completamente efficace. In le tractamento de humanos con tumores cerebral, illo ha resultate in un prolongation del vita del patiente. A parte le inherente problemas medico-physiologic, le nove methodologia presenta ancora formidabile difficultates technic. In le stato presente del investigationes a Brookhaven, que es persequite sub le direction de Dr. L. Farr, le tractamento de un sol patiente individual require le effortos cooperative de 150 ingenieros, technicos, medicos, e altere scientistas.

**Inventiones.**—Esseva patentate un nove systema de propulsion pro micre naves a motor, distincte ab le systemas traditional principalmente per le absentia de un helice. In loco de un tal, le systema ha duo tubos in forma de "L," con le bracios horizontal submergite e placiante le un in avante e le altere in retro in parallelismo con le axe del nave. Le motor pumpa aqua ex un del tubos e expelle lo per le altere. Le absentia del helice elimina le plus delicate e le plus periculose elemento del machineria in yachting a motor.

**Mechanica Celeste.**—Le duration del rotation del sol circum su axe es usualmente date como equal al duration de 27 dies terrestre. Sed si allora le "die" pro habitantes del sol (si tales existeva) durarea circa 648 de nostre horas, iste valor varia grandemente inter le regiones equatorial e polar. Un satisfacente explication de iste curiosissime facto ha non ancora essite trovate.

**Astronomia.**—Es nunc disponibile (al costo de 15 cents ab le Pressa Governamental del Statos Unite) un tabulation del numero de meteoros que un bon observator pote expectar vider in le curso de un hora a non importa qual periodo del anno. Le tabulation es basate super le documentate observationes facite durante le passate 58 annos. In le curso de iste periodo de pauc plus que un medie seculo, un sufficientemente patiente e sufficientemente longeve observator haberea potite vider (in le absentia de nubes) un total de 294.000 meteoros.

**Obstetrica.**—Pro meliorar le probabilitate del superviventia de un micre e debile neonato (super toto in le caso de geminos), Dr. M. Berlind de New York recommenda tener le infante circa 15 centimetros infra le nivello del tabula obstetric, immediate post su apparition e usque al momento quando le pulsation in le cordon umbilical se arresta. Le objectivo del procedimento es facer le plus grande quantitate possibile de sanguine transir ab le placenta a in le circulation del neonato.

**Astronautica.**—In applicar (in le futuro) pro un position como pilota de astronave, le subjecto qui ha perditte ambe gambas pote citar iste defecto de su corpore como un marcate avantage. In le locomotion intra un astronave que viagia sub le conditiones de gravitate zero,

le gambas ha nulle valor, sed lor absentia reduce le peso non-productive del vehiculo. Un altere aspecto del question es le psychologia del amputato. In le terra ille vive un vita plen de obstaculos e de difficultates, e isto prepara le a acceptar inexpectate e incognite stresses con alte grados de equanimitate, e le sol cosa que le astronauta futur va poter expectar con certitude absolute es que ille va esser exponite a inexpectate stresses de omne cognite e incognite genere.

**Chassar e Piscar.**—In le Statos Unite, omne tertie familia include un o plure chassatores e/o piscatores. In le grande citates, omne sexte familia includes tales; in le micre citates, omne tertie; in le campania, omne secunde. In le population de subjectos de plus que 12 annos de etate, omne quinte subjecto es chassator e/o piscator. Omne quarte masculo es piscator; omne dece-prime femina es piscatrice. Omne quinte masculo es chassator; sed solamente omne cento vinti-octave femina es chassatrice. Le chassatores del Statos Unite expende omne anno un milliardo de dollars pro le requirementos de iste preoccupation. Le requirementos del piscar es ancora plus costose. Le piscatores expende per anno duo milliardos de dollars.

**Physiologia.**—Limaces aquatic es difficile a anesthetisar, e quando potentissime drogas es usate, le resultante stato anesthetic non es accompagniate de relaxation muscular, de maniera que iste gastropodos non se presta facilmente a studios chirurgico-experimental. In le caso de duo species de limaces de aqua marin, *Bullia digitalis* e *Bullia laevisima*, Dr. A. C. Brown del Universitate Cape Town in Sud-Africa ha solvite le problema: Le reduction del salinitate del ambiente del creaturas per medio de progressive additiones de aqua distillate resulta, intra iste limaces, in un forte turgor osmotic que es accompagniate de relaxation muscular e un stato de perfecte anesthesia. Post que le salinitate del ambiente es re-normalisate, le limaces se restaura sin le minor apparente difficultate. Le caso de limaces de aqua dulce remane problematic.

**Physiologia Sensori.**—Calor o frigor, e alte humiditate, reduce le acutessa del audita in humanos. Professor Lucia C. Morgan del Universitate Nord-Carolina ha constatate que un temperatura de 10 C e un humiditate relative de 70 pro cento representa conditiones optimal pro nostre audir.

**Astro-Agricultura.**—Le Corporation Republic Aviation ha popularisate, in nostre scientistas futur, le hobby de experimentos "seleno-agricole." Le corporation es interessate in observationes de crescentia vegetal sub le conditiones de basse e bassissime pression atmospheric. Illo ha offerite, in iste connexion, un manual super "jardinos lunar" a certe gruppos de studentes in le scholas secundari del Statos Unite, e usque nunc le manual ha essite demandate per 1500 subjectos. (Le interessatos includeva un adulto qui notava como su domicilio un del prisiones statal de New York.)

**Pollution de Aqua.**—Le industrialisation de Russia ha attingite un puncto ubi le problema del pollution del aquas public per le effluxos del grande fabricas es absolutamente le mesme como in le pais del Occidente. Jornales russe deplore la destruction del pisces in le rivieras de areas industrial, nota con alarma le resultante periculos ab le puncto de vista del sanitation social, e se plange del attitude de resignation inactive del parte del autoritates, exactemente como lo face le jornales in nostre pais del West.

• Science News Letter, 78:68 July 30, 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 have 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, 78:68 July 30, 1960

## SCIENCE NEWS LETTER

VOL. 78 JULY 30, 1960 NO. 5

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: SCIENSERV.

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, Department of State; 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. Ogden, 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: Gloria Ball, Ann Ewing, W. T. M. Grigg, Faye Marley, Jane Marye, Tove Neville, Marjorie Van de Water. Science Youth Division: Joseph H. Kraus, Shirley Moore, Dorothy Schriver. 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.