

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

➤ **Ornithologia.**—Pollution oleose de pecias de aqua resulta annualmente in le morte de milles e decenas de milles de aves, specialmente marin. Tractar le victimas con sapon o altere detergentes non effectua lor rehabilitation, proque tal agentes remove etiam le oleos natural in lor plumage. Secundo un naturalista angese, le uso de argilla smectic (i.e. "fuller's earth," "Walkerde," "terre à foulon," etc.) solve le problema.

➤ **Obstetrica.**—Se trova sub disveloppamento al Universitate Yale un machina electrocardiographic que registra simultaneamente (1) per medio de electrodos applicate al abdomine de un femina pregnante le complexo del activitate del corde del matre e del activitate del corde del feto e (2) per medios plus conventional le activitate del corde del matre sol. Le machina "subtrahe" automaticamente le secunde ab le prime de ille duo registrationes e forni assi un electrocardiogramma del corde fetal. Illo ha essite usate pro studiar cordes fetal a un etate de solmente 18 a 20 septimanas. On spera poter utilizar lo durante le periodo del labores pro deteger e remediare anormalitates cardiac acute que menacia le vita o le sanitate del infante.

➤ **Aeronautica.**—Ha essite inventate un ballon a helium que se infla automaticamente quandoque le aeroplano in que illo es installate incurre un accidente major. Alora le ballon monta sed remane attachate al aeroplano per un corda. Illo es equipate con un radiodiffusor automatic que emitte signales de alarma.

➤ **Alimentos.**—The a glacie se face traditionalmente (e usque nunc necessarimente) ex the calide. Iste paradoxo resulta del facto que certe fractiones de the es insolubile in aqua frigide. Senior I. I. Herz de White Plains, New York, ha discoperite (e patentate) un processo que effectua le complete solubilitate de ille fractiones in aqua frigide. Le processo consiste in un pre-tractamento per un sulfito que es innocue pro le organismo human.

➤ **Astronomia.**—Le distantias relative intra nostre systema solar—per exemplo Terra a Luna, Terra a Marte, Marte a Sol, Terra a Sol, etc. — es cognoscite con alte grados de exactitude. Tamen, le normalmente acceptate valores pro le distantias absolute es minus digne de confidentia. Recente observationes per medio de radar, reportate per Dr. B. S. Yaplee del Statounitese Laboratorio pro Recercas Naval, indica que le distantia inter Terra e Luna es in realitate appreciabilemente superior a lo que ha currentemente essite supponite super le base de calculaciones astro-mathematic.

➤ **Chirurgia.**—In experimentos con canes, Dr. E. H. Kopf de Buffalo, New York, ha trovate que in reimplaciar aortas defective, sectiones del trachea de un subjecto morte es plus satisfacente que sectiones del aorta de un tal subjecto o etiam que reimplaciamientos artificial. Dr. Kopf es preste a essayar su methodo in patientes human.

➤ **Zoologia.** — Le disproportionatemente grande glandulas nasal del aves marin esseva recognoscite per Dr. K. Schmidt-Nielsen del Universitate Duke como organos de "desalification de aqua salin." In experimentos con pinguines il esseva trovate que dece minutas post le ingestion de 5 g de sal le glandulas nasal de ille aves comenciava producer un secretion plus concentratemente salin que aqua de mar. Le processo continuava plus que 11 horas e resultava in un descarga total de sal que esseva dece vices plus grande que le simultanee descarga de sal per le renes.

➤ **Neurologia.**—Le effecto anesthetic de lobotomia cerebral pote esser simulate sin extense intervention chirurgic per localisate iniectiones intracranial de micre quantitates de aqua calide de un temperatura de 75 C. Le methodo, disveloppate per Dr. R. Jaeger del Collegio Medical Jefferson a Philadelphia, visa a disrumper specific connexiones neural inter le lobo frontal e altere partes del cerebro. Repetite iniectiones pote esser usate pro ajustar le grado e le extension del disconnexiones al requirimentos del caso individual.

➤ **Dentisteria.**—Le observation que circa 1 pro centro del population es naturalmente immun contra carie dental ha inspirate un studio al Universitate Statal de Ohio, visante a isolar e identificar le factor protectori in le saliva del fortunate individuos qui non cognosce le miseria de carie dental. Il pare tractar se de un proteina de structura ancora incognoscite, le qual ha le potentia de restringer o mesmo supprimer le flora buccal de lactobacillos.

➤ **Recercas de Poliomyelitis.**—Studios in 142 matres e lor neonate infantes, effectuate al Universitate Michigan, ha definitivamente demonstrate que le vaccination antipoliomyelitic de feminas pregnante stabli le mesme grado de protection in le feto como in le matre.

➤ **Satellitologia.**—Le statounitese Consilio Nacional de Aeronautica experimenta con le idea de utilizar ballones a superficie metallic como satellites con le function de servir como stations de relais pro le radiocommunication terrestre. On pensa a ballones de diametros de 30 m e plus. Un specimen experimental de un diametro de 4 m ha jam essite portate a un altor de circa 80 km. Iste specimen haveva un peso de circa 4 kg. Al altor desirate illo esseva inflate per aere comprimite. In satellites de iste genere, le tension interne pote (e mesmo debe) esser relaxate si tosto que le forma spheric del ballon ha essite effectuate.

➤ **Ressources de Energia.** — Detonationses serial de "micre" bombas de hydrogeno (i.e. de 10 kilotonnas de energia), effectuate a intervallos de un medie hora al interior de un specialmente construite camera gigante (i.e. de un altor del ordine de 150 m e un largor del ordine de 200 o 300 m), esseva capacea producer satis vapor de aqua pro generar 12 pro cento del consumption total de electricitate del integre Statos Unite. Detalios de iste projecto esseva elaborate per Dr. J. Orear del Universitate Columbia. Le parietes del camera visualisate per Dr. Orear esseva representate in parte per le lateres de un canyon natural.

➤ **Industria de Sucre.**—Un meliorate processo pro pulpar le fibras residue del canna de sucre — i.e. del material que es tecnicamente cognoscite como "bagazo" — esseva disveloppate in le laboratorios del statounitese Departamento de Agricultura. Illo rende possibile le utilisation de bagazo in le fabrication de carton de emballage del plus alte qualitate.

➤ **Statistica Medical.**—Inter le 30 de junio 1957 e le 5 de april 1958, morbos supero-respiratori in le Statos Unite causava un total de 575.000.000 dies-patiente passate in lecto.

➤ **Cardiologia.**—Chirurgia cardiac a basse temperatura (i.e. chirurgia cardiac hypothermic) va possibilemente necessitar un complete re-evaluation del effectos de varie drogas que es traditionalmente usate in operationes del corde. Le action e interaction de tal drogas cambia sub conditiones hypothermic — in certe casos usque al contrario de lor action sub conditiones normothermic.

Science News Letter, May 31, 1958

## 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.

Financial contributions to the Interlingua program are needed and will bring dividends in the future by helping to establish this new international tool.

Science News Letter, May 31, 1958

## SCIENCE NEWS LETTER

VOL. 73 MAY 31, 1958 NO. 22

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. Edited by WATSON DAVIS.

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 © 1958 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 (nine times a year) and THINGS of Science (monthly).

Printed in U.S.A. Entered as second class matter at the post office at Washington, D. C., under the act of March 3, 1897. Acceptance for mailing at the special rate of postage provided for by Sec. 34.40 P. L. and R., 1948 Edition, paragraph (d) (act of February 28, 1925; 39 U. S. Code 283) authorized February 28, 1950. 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: Edward U. Condon, Washington University; Harlow Shapley, Harvard College Observatory; Philip Bard, Johns Hopkins University. Nominated by the National Research Council: I. I. Rabi, Columbia University; Leonard Carmichael, Smithsonian Institution; John R. Dunning, Columbia University. Nominated by the Journalistic Profession: O. W. Riegel, Washington and Lee University; Michael A. Gorman, Flint Journal; 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. News Editor: Howard Simons. Writers: Marjorie Van de Water, Ann Ewing, Jane Marye, David Pursglove, Benita Tall. Science Youth Division: Harold A. Edgerton, Joseph H. Kraus, Margaret E. Patterson. 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.