

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

► **Entomologia.**—Le studio del “voces de insectos”—i.e. de lor signales acustic—ha essite simplicite e rendite accessibile a amateurs gratias a un methodo disveloppate al Universitate Pennsylvania. Le signales es registrate super bandas magnetic. Iste bandas es ponite in contacto con pulvere de ferro carbonylic que adhere solmente ubi le bandas es magnetic. Le resultante configuration es transferite a un transparente banda adhesive de cellophan e montate pro investigationes ulterior super papiro o vitro o pelliculas de plastic.

► **Agronomia.**—Ha essite determinate que mesmo in le plus efficace installationes de irrigation, circa un tertio del aqua afferite se perde in reservoirs o canales per infiltration in le terra ante que illo arriva in le area a irrigar. Pro reducir o eliminar iste guastation innecessari, le Station Experimental Utah del statounitese Departamento de Agricultura investiga le possibilitate de revestir le reservoirs e canales de tenue pannos de plastic, per exemplo vinyl o polyethyleno. Le resultados es apparentemente multo promittente.

► **Materiales.**—Ligno non perde su fortia per invetulation, providite, il va sin dicer, que illo es protegite contra le inclementias del tempore. Isto esseva determinate per tests in le “Edificio Octagon” a Washington que esseva erigite in 1798 con le uso de ligno de pino del sud del Status Unite. Le fortia del ligno in le Edificio Octagon esseva identic con le fortia de hodierna ligno del mesme provenientia.

► **Pisca.**—Esseva inventate un canna de pisca con un manica calefacibile. Le manica es cave e pote esser plenata de ardente carbon de ligno. Le temperatura es regulabile per reducir o augmentar le entrata de aere.

► **Ingenieria.**—Le crise de Suez ha suggerite le plano de construir un reimpiamento ab le Mediterraneo via Israel usque al Golfo de Aqaba. Le distantia esserea 225 km in comparation con le 166 km del canal nunc in uso. Expertos de ingenieria signala que le projecto requirea circa duo annos de investigationes preparatoriologic e topographic. Le tempore requirite pro construir le nove canal es difficile a estimar.

► **Sexologia.**—Le “habitudes” sexual del animales unicellular que es cognoscite como paramocios cade in duo clarmente distinguite categorias. Le unes se conjuga uniformemente con “consanguineos” multo affin, le alteres accepta solmente complete “estranjeros” como partenarios de conjugation. Iste differentia fundamental corresponde a multe altere distinctiones. Le “heteroconjugatores,” per exemplo, ha un plus longe periodo de maturation que le “homoconjugatores.” Il es evidente que le prolongate maturation permette plus extense migrationes ante le occurrentia del conjugation.

► **Entomologia.**—On sape que le resistentia de muscas e mosquitos contra DDT consiste in le novemente acquirite capacitate de producer un enzima que rende DDT innocue. Un nove discoperta in iste campo, facite per Dr. A. W. A. Brown de Canada e A. S. Perry de Georgia, signala que le enzima producite contra DDT per mosquitos e muscas domestic es identic. Nonobstante, le chimismo per que illo es producite pare esser multo differente.

► **Physica Atomic.**—Le discontamination de aquas continente radioactive rejectas industrial o accidental pote esser effectuate per le cultura, in tal aquas, del duo creaturas marin, *Aphanocapsa koordersii* e *Brachionus plicatilis*.

Illos concentra le radioactivitate in lor corpores, e *Brachionus* accelera le processo per devorar *Aphanocapsa*. Iste remarcabile phenomeno esseva observate per un gruppo de scientistas del Universitate Prefectural Mie in Japon. In lor reporto illes nota que post le experimentos atomic de Bikini, le studio del aqua contaminante revelava le presentia de creaturas marin continente concentrationes de radioactivitate 1000 vices plus alte que lor ambiente.

► **Telephonia.**—Le Compania Telephonic Bell ha in uso un connexion experimental inter New York e Los Angeles que permette al telephonantes vider le un le altere. Le parte visual del connexion pote esser disruptite o prevenite per le un o le altere del telephonantes sin disrangiar le connexion acustic. Le transmission visual functiona secundo le principios del television, sed durante que le mecanismo standard del television produce circa 30 complete imagines per secunda, le nove systema Bell se restringe a un imagine in duo secundas. In su forma presente le systema es troppo complexe e costose pro usos general.

► **Television.**—Un inventor de New York ha recipite un patente pro un receptor de television que functiona sin tubo de radios cathodic. Le tubos usate permette un construction con un si reduceite tertie dimension que le apparato pote esser installate in un quadro pendente al muro como non importa qual pictura o photographia.

► **Astronomia.**—Il deveni de plus in plus probabile que le planeta Pluto, discoperite in 1930, non es un ver planeta sed un escappate luna de Neptuno. Iste concepto esseva primo formulate per Dr. G. P. Kuiper del Universitate Chicago e es nunc supportate per Dr. E. K. Rabe del Universitate Cincinnati qui ha investigate le question mathematicamente super le base del theoria que le escappamento de lunas debeva occurrer quando le originalmente basse temperatura del sol commenciava montar, con le resultante evaporation del plus grande parte del massa que le planetas haveva possedite in lor stato initial.

► **Astronomia.**—Al recente congresso del Societate Astronomic American, tres typos de radiosignales recipite ab le planeta Venus esseva reportate. Duo de iste classes es transmittite a un longitude de unda de 11 m e se distingue principalmente per lor duration. Le longitude del tertie classe es 3,15 cm. Iste undas es de origine thermic e varia in fortia con le quantitate de lumine solar reflectite per Venus. Illos permette le conclusion tentative que Venus ha temperaturas normal de plus que 120 C.

► **Medicina.**—Studios del effectos anti-leucemic de irradiation de sanguine in derivation—i.e. de sanguine foras del corpore—ha ducite un gruppo de medicos francese al discoperta accidental sed epochal que individuos con sanguine irradiate durante su separation ab le corpore possede un elevate resistentia contra subsequeite irradiationes del corpore integre. Il pare tractar se de un specie de immunisation contra le effectos nocive de irradiation. Usque nunc iste observationes es restringite a animales.

► **Anthropometria.**—In un studio facite in 1895 a Praga, 76% del adultos mascule de 20 annos haveva staturas de minus que 170 cm. In un studio comparabile executate in 1955, quasi le mesme percentage—74.8%—haveva staturas de plus que 170 cm. Simile observationes ha essite facite in varie altere paisas.

Science News Letter, September 29, 1956

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Science News Letter, September 29, 1956

SCIENCE NEWS LETTER

VOL. 70 SEPTEMBER 29, 1956 NO. 13

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; single copy, 15 cents, more than six months old, 25 cents. No charge for foreign postage.

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Printed in U. S. A. Entered as second class matter at the post office at Washington, D. C., under the act of March 3, 1879. 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 Aud't Bureau of Circulation, Advertising Representatives: Howland and Howland, Inc., 1 E. 54th St., New York 22, Eldorado 5-5666, and 435 N. Michigan Ave., Chicago 11, Superior 7-6048.

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