

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

➤ **Psychologia Animal.**—Le principio que animales es incapace a transmitter lor cognoscencias individual a altere membros de lor specie debe esser modificate de accordo con le resultatos de experimentos con rattos reportate per Dr. R. M. Church del Universitate Brown. Post trainar un ratto in un labyrintho a mover se verso un signal de lumine rubie, Dr. Brown poneva un secunde sed non-trainate ratto in le mesme labyrintho e induceva le prime ratto a repeter su acto in le presentia del secunde. Plus tarde le prime ratto esseva removite. Le secunde, lassate sol in le labyrintho, se monstrava allora capace a trovar le signal de lumine sin esser subjicte a un nove curso de trainamento.

➤ **Aeronautica.**—Le projecto de "aerolocomotivas" a propulsion atomic es currentemente studiate per ingenieros del Britannic Ministerio de Provisiones. Tal "locomotivas aeree" pendularea inter le continentes sin atterrage durante plure septimanas. In omne viage transoceanic illos trainarea conventional aeroplanos de cargo que essera attachate e distachate in volo e que requirerea nulle combustibile pro le viage intercontinental sed solamente pro breve distantias de involamento e atterrage.

➤ **Psychiatria.**—Patientes de morbos mental se distingue per subnormal acuitate de vision nocturne. Iste facto, possibilemente de importantia diagnostic, esseva establite per Dr. G. W. Granger de London qui signala que le phenomeno es simile al effecto producite in le sistema nervose per carentia de oxygeno (p. ex. a extreme altitudes) e per excessos de insulina o de alcohol.

➤ **Agronomia.**—Un malherba sud-african, cognoscite como *Striga lutea*, menacia le cultivation de mais e altere granos in le Statos Unite. Su prime occurrentia in iste pais ha essite reportate ab le Carolinas. Illo es un semi-parasito, i.e. su semines (de dimensiones microscopic) pote germinar solamente in contacto con le radices de mais e simile plantas granifere. Plus tarde *Striga lutea* es un planta independente que cresce rapidamente e produce usque a 500.000 semines cata un. Nulle protection contra iste peste es cognoscite. In Africa on lo combatte per destruer afficte plantationes de grano immediatamente post le germination del malherba. Le secunde plantation de grano in le mesme campo es usualmente libere de strigas (que naturalmente pote re-arrivar le proxime anno). Iste methodo pare economicamente impractic in le Statos Unite.

➤ **Medicina.**—Un studio statistic per Dr. W. A. Thomas de St. Louis monstra que in le Statos Unite le mortalitate ab morbos cardiac es hodie quasi identic pro homines e feminas. Ante 1940 solamente un tertio del victimas esseva feminin. Le proportion inter blancos e negros moriente ab morbos cardiac es 5 a 1. Iste differentia inter le duo racias pare devenir de plus in plus acute. Dr. Thomas non es preste a acceptar pro illo un explication genetic.

➤ **Transporto Maritime.**—Le corrente carentia de naves tank pro le transporto de petroleo ha inspirate un invention britannic que promitte revolutionar le integre campo del transportation transoceanic de liquidos de peso specific inferior a illo de aqua. Le liquidos, specificamente le petroleo, essera portate in enorme tubos de nylon revestite e reforfortiate de plastic. Iste tubos, possibilemente con un capacitate de 9000 tonnas, essera trainate in series per naves a vapor traditional. Plenate de petroleo illos

essera submergite a circa quatro quintos. Post lor vacation al porto de destination le tubos potera esser rolate in paccos non troppo pesante pro le retro-transporto in aeroplanos. Si iste typo de tank de transporto se prova practic, illo essera cognoscite como NOB, un parola facite ex le initiales del anglese "Nylon Oil Barges."

➤ **Physica Atomic.**—Le studio experimental del comportamento del precipitation radioactive post detonationes atomic ha essite initiate per le Laboratorios Naval de Defensa Radiologic in California. In le experimentos on se servi de un precipitato artificial de lanthanum-140 que esseva seligite a causa de su breve vita medie (de 40,2 horas). In minus ambiciose studios, independentemente executate a Milwaukee, Dr. H. A. Heise ha trovate que le precipitation de pollines super grande citates es impedita per le ascension del aere que es le effecto del levemente elevate temperaturas urban. Ab iste observationes Dr. Heise conclude—e illo lo ha monstrate in experimentos con modellos in miniatura—que in caso de guerra precipitationes radioactive essera minus periculose pro grande citates que pro areas rural.

➤ **Vitaminologia.**—In experimentos con rattos, Dr. A. E. Axelrod del Universitate Pittsburgh ha trovate que le formation de anticorpore antidiphtheric que es normalmente evocate per injectiones de toxoide de diphtheria remane inadequate quando le subjecto suffre de anormalmente basse reservas de certe vitaminas. Ni repetite injectiones del toxoide ni supplementos de vitamina al tempore del injectiones poteva meliorar le reaction.

➤ **Materiales.**—Le recente reunion del Instituto American de Ingenieros Chemic audiva inter alteres un reporto in re nove projectos e possibilitates in le campo del fibras synthetic (que acquire currentemente inexpectate grados de resistentia a fortias mechanic e a alte temperaturas per le application a illos de energia radiational). On previde un vaste disveloppamento del construction de edificios industrial ex fibras synthetic que es tenite erecte exclusivemente per le mantenentia de levemente elevate pressioness atmosferic a lor interior. On etiam considera le possibilitate de reimplaciar le resortos metallic que supporta le carrosserias de automobiles per cossinos de fibras synthetic inflate de aere.

➤ **Cardiologia.**—Un gruppo de medicos de Philadelphia reporta successo in lor effortio de equipar un catheter cardiac con un puncta continente un minusculissime microphono. Assi le nove disciplina medical del phonocardiologia intracardiac es establite. Illo promitte adder considerabilemente al comprehension del mecanismo cardiac. Simile effortios esseva initiate in 1954 in Japon. Illos non succedeva a causa del impossibilitate de construer efficace microphonos del requirite microdimensiones.

➤ **Ressources de Energia.**—Algas cresce e mori e descende al fundo del tank. Illos se decompone e produce methano, bioxydo de carbon, e debris organic. Le methano es utilisate como combustibile resultant in plus bioxydo de carbon. Le debris organic e le bioxydo de carbon supporta le crescentia de algas que mori e se decompone e continua iste cyclo que furni un combustibile sin requirer ulle supplemento excepte le energia solar pro le photosynthese del algas. Experimentos laboratorial con iste sistema ideal es in progresso al Universitate California.

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GENERAL SCIENCE

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