

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

➤ **Recercas de Poliomyelitis.**—Es reportate ab Chicago que un femina in le acute stadio de poliomyelitis parturiva, in le pulmon de aciero, un infante sin ulle signo apparente del morbo de su matre. In omne previe casos de parturition per patientes de poliomyelitis in stadio acute, le neonatos exhibiva symptomatos del morbo e demonstrava assi que poliomyelitis es transferibile ab le matre al embryon in su utero. Le presente caso demonstra que le embryon pote reager al infection poliomyelitic per le disveloppamento de anticorpos protective.

➤ **Physiologia.**—Hamsters congelate pro periodos de un hora e plus esseva disgelate e resuscitate sin ulle apparente mal effecto in experimentos executate per Dr. Audrey Smith al Instituto National de Recercas Medical a London in Anglaterra. Dr. Smith predice que le durantia del "congelation sin morte" pote esser prolongate irrestingentemente in le caso de hamsters e que ultimentemente un simile procedura va devenir possibile etiam pro humanos.

➤ **Pischeria.**—In transportar colonias de pisces ab un laco al altere, le servicio canadian de pisceria se ha servite con successo de un simple methodo a anestheticos e glacie. In loco de transportar le pisces in le enorme tanks que esseva requirite pro provider le pisces de satis aqua e satis oxigeno, le expertos canadian ha anesthesiate lor pisces (super toto varie species del familia *Esox*) per medio de urethano e ha impacchettate los in stato inconscie sub coperturas de glacie. Esseva constatate que le pisces supervive completamente intacte a iste typo de transporto durante periodos de cinque horas e plus.

➤ **Astronautica.**—Pro simular le conditiones que futur astronautas va deber supportar, le fabrica General Mills Inc. a Minneapolis ha construite un "camera de spatio" in que varie materiales es subjicite al collision con invisibile particulas viagiante a velocitates de 30.000 km per hora e plus. Omne materiales nunc disponibile se disintegra post prolongate exposition al conditiones del "camera de spatio." Plus immediate objectives del recercas in le "camera de spatio" es trovar o disveloppate e probar le melior materiales pro le construction de satellites terrestre artificial.

➤ **Physica Atomic.**—Dosages maximal de irradiation atomic—i.e. dosages post que le vita del victima es ancora salvabile—reduce le superviventia median de animales experimental per 25 pro cento, secundo observationes facite per Dr. H. A. Blair del Universitate Rochester. On crede que simile relationes vale etiam pro humanos. Un minus lugubre resultado del recercas de Dr. Blair es que 20 continue annos de exposition al dosage maximal de irradiation currentemente admittite pro travaliatores in le industria atomic reducerea lor vita per non plus que 2,5 pro cento.

➤ **Physiologia.**—Un chirurgo e un dentista de Chicago ha discoperite un frappante correlation del occurrentia de curvaturas spinal e deformitates dental. Quando le curvatura spinal es congenite o un sequela de poliomyelitis, le correlation con deformitates dental es minus pronunciate o mesmo absente. Isto pare indicar que le co-existentia del duo debilitates es causate per un sol factor disveloppamental o crescential.

➤ **Psychologia Animal.**—Es reportate ab Australia que circa 400 juvene balenas ha nate verso le costa in un baia in le vicinitate de Dunalley in Tasmania. Le balenas haveva un

longor de inter 3 e 8 m. In le pauc profunde aqua del baia le balenas non poteva respirar proque lor diaphragmas esseva pressate contra le fundo. Illos moriva. Piscatores de Dunalley tentava remolcar los al oceano aperte pro salvar los, sed illos reveniva al costa—obediente, il pare, un irresistibile impulso suicidal. Le fenomeno del suicidio in massa de juvene balenas ha previeamente essite observate, sed illo remane sin explication.

➤ **Physiologia.**—Un interrelation de sexo e temperatura esseva constatate per Dr. J. Bouillon de Brussel in Belgica pro le specie gastropodic *Cepea nemoralis* L. Iste creatura es hermaphrodite, i.e. illo es capace a simultaneamente producer cellulas spermatic e ovos. Secundo Dr. Bouillon, *C. nemoralis* exhibi nulle activitate sexual a temperaturas vicin a 0° C. In le vicinitate de 6° C., illo produce ovos sed nulle sperma. Finalmente, in le vicinitate de 20° C., illo produce e ovos e sperma, sed le ovos produce a tal temperaturas non pote maturar.

➤ **Epidemiologia.**—Le Bureau Sanitari Pan-American predice que febre jalne va invader Mexico intra alcun menses o al plus un anno. Iste prediction se basa super le reporto de simias moriente ab febre jalne in Guatemala a un distantia de minus que 150 km ab le frontiera mexican. On interpreta le situation como periculose pro le integre territorio in que le mosquito *Aedes aegypti* existe e es preste a disseminar le morbo.

➤ **Psychologia.**—On recognosce de plus in plus que le si-appellate quotiente intellectual non mesura vermente le intellecto sed le u o le altere dexteritate que es un aspecto specialisate del intellecto. Proque le tests traditional mesura satis exclusivamente le dexteritate verbal, on ha supplementate los per tests de dexteritate manual. Isto non satisfaveva le psychologo Dr. H. N. Hoffman del Universitate New York. Ille ha disveloppate tests non-verbal e non-manual que mesura le capacitate de conciper dimensiones, symmetria, profunditate, spissitate, e altere elementos de forma concrete. Certes inter iste tests monstra un satis bon grado de correlation con le tests intellectual traditional, sed in certe alteres le correlation es completamente absente.

➤ **Algicultura.**—Esseva accordate duo patentes statounitense concernite con le cultura de *Chlorella* que va possibilemente devenir un importantissime ressource de alimentacion human e animal. Le prime de iste patentes concerne le combination de nitrogeno fixe con minerales e micro-nutrientes in le ambiente aquose de *Chlorella* que resulta in le production maximal de proteina, lipidos, e hydratos de carbon. Le secunde patente concerne le optime dimensiones del receptaculos algicole. Le possessores de iste patente ha observate que le productivitate de algas es un function del forma del tanks in que illos cresce. Lor patente protege le resultados de un exacte studio de iste fenomeno.

➤ **Physiologia.**—Depost 1952 il es cognoscite que un del differentias biochimic inter le duo sexos es le presentia de chromatina in le nucleos de cellulas feminin. Es nunc reportate que le mesme differentia characterisa etiam le cellulas in le liquido in que le feto es suspendite durante le periodo de gestacion. Le problema del prediction del sexo de un infante non ancora nascite esserea consequentemente solvite, si le obtention de specimens del liquido mentionate non esseva frequentemente impossibile.

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### GENERAL SCIENCE

## Atomic Energy Study Being Sold as Book

➤ **PROBABLY** the most up-to-date and complete textbook on atomic energy is being sold by the U. S. Government Printing Office.

The book is Volume 2 of the "Report of the Panel on the Impact of the Peaceful Uses of Atomic Energy" made to the Joint Congressional Committee on Atomic Energy (see SNL, Feb. 18, p. 108.)

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