

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

► **Ingenieria.**—Peroxydo de hydrogeno es usate como fonte de energia in le nove submarino britannic H.M.S. Explorer. Le avantage de iste motores in submarinos es que illos ha nulle visibile gases de escappamento. On dice que le germanos haveva cinque tal submarinos durante le passate guerra. Illos nunquam quitava lor bases proque le germanos non haveva satis peroxydo de hydrogeno.

► **Hypnotismo.**—Le prime operation pulmonar con anesthesiation per hypnotismo es reportate ab Los Angeles. Le hypnose esseva applicate per le anesthesiologo Dr. M. J. Marmer. Ille explica que in su opinion le hypnose es un anesthetic quasi ideal. Illo ha nulle effecto toxic e elimina non solmente le dolores physic sed etiam le timores e anxietates del patientes. Comparate con tal advantages, il es negligibile que le anesthesia hypnotic ha le sol vicio que illo non pote esser effectuate rapidamente.

► **Entomologia.**—Le digestion de mosquitos progredie con varie rapiditates in varie species. Un repasto normal de sanguine es assimilate per illos in le curso de periodos de inter 31 e 48 horas. Il es evidente que iste factos, resultante de recercas de Dr. A. K. O'Gower del Universitate Sydney in Australia, es importante quando on vole investigar le mechanismo del morbos que es disseminate per mosquitos. Aspectos curioso del problema es que le digestion de mosquitos es accelerate quando le numero del horas de obscuritate nocturne es augmentate, quando le temperatura del ambiente monta, e quando (con temperaturas basse) le humiditate atmosferic es elevate.

► **Recercas de Cancere.**—Le exhibitiones scientific monstrate al congresso annual 1956 del Association Medical American includeva un "echographo" pro le diagnose de cancere. Illo emitte inaudibile undas acustic de altissime frequentias. Iste undas penetra le corpore ubi illos es variamente reflectite. Lor echo es alora registrate per medios electronic. Le resultante "echogramma" es de grande valor in le diagnose de cancere proque organos normal es minus "reflectente" que massas cancerose, e tumores benigne produce nulle reflexion del toto. Le echographo esseva exhibite per Drs. J. J. Wild e J. M. Reid del Hospital St. Barnabas a Minneapolis.

► **Neurologia.**—Esseva constatate al Universitate Birmingham in Anglaterra que le cellulas nervose del cerebro distinde o contrabe lor nucleos secundo que le individuo executa le un o le altere typo de activitate. Un grande effortio physic—currer per exemplo—allarga le nucleos. Le application de anestheticos, del altere latere, reduce lor dimensiones. Iste factos esseva notate in experimentos con muses.

► **Botanica.**—Un flor de generation atomic ha essite patentate. Il se tracta de un caryophillo blanc que resultava per mutation, sub le influenza de radios gamma de cobalt-60, ab un caryophillo blanc con marmorisation rubie. Le nove varietate se ha mantenite intacte a transverso tres generationes. Illo esseva create accidentalmente in le curso de experimentos biologic con radiation atomic interpendite per Dr. W. R. Singleton del Universitate Virginia.

► **Arthritis.**—Un cyclo diurne in le production de hydrocortisona per le glandulas adrenal esseva discoverite per Dr. J. E. Warren del Universitate Pittsburgh. Le production de hydrocortisona attinge su minimo inter 3 e 4 horas del matino. Postea illo cresce abruptemente e attinge su maximo a circa 7 horas. Dr. Warren etiam

constatava que in arthriticos ambe extremos—le minimo e le maximo—es minus marcate. Le reduction del maximo matinal in arthriticos explicarea proque multes inter illos suffre de rigiditate del articulationes quando illes se evelia in le matino.

► **Zoopsychologia.**—On sape que le historias de simias qui lancea cocos e altere objectos contra lor observatores (o attaccatores) human es simple historias. Sed usque recentemente on credeva seriemente que simias in alto de arbores visa cautemente pro assecurar que le objectos que illes lassa cader incontra le objecto de lor displacer. Secundo Dr. H. Setzer, mammalogo del Instituto Smithsonian qui justo reveni ab un expedition in Costa Rica e Panama, simias es incapace a visar. Illes lassa cader lo que illes tene in lor manos sin malevolentia e semper per accidente.

► **Alimentos.**—Le preservation de alimentos per "radiopasteurisation"—i.e. per medio de sterilisation a irradiation atomic—approcha le stadio de practicabilitate commercial gratias a experimentos conducte al Universitate Michigan. In illos le irradiation ha essite combinate con refrigeration. Il pare que alimentos irradiate es immagasinabile durante plure menses a temperaturas de 5 C. Le costo del nove processage es solmente circa un dollar pro 50 kg de alimentos.

► **Gynecologia.**—Le numero del infantes nascite inter 18 horas del postmeridie e 6 horas del matino es quasi identic con le numero del infantes nascite inter 6 horas del matino e 18 horas del postmeridie. Si on divide le die in tres partes de octo horas, le intervallo ab 3 a 11 horas del matino excede le altere duo intervallos in le numero del neonatos producte. Le culmine del curva de nascentias diurne occurre a 5 horas, le nadir a 19 horas. Le culmine excede le nadir per 48%. Iste datos es basate super un statistica de 33,215 casos registrate a cinque hospitales in tres regiones del Statos Unite.

► **Entomologia.**—Un gruppo de scientistas del Universitate Ohio ha constatate que le production de ovos per mosquitos depende de lor dieta. Per le administration de varie distincte dietas experimental certe specific requirementos proteinic esseva establite. Simile recercas ha essite initiate pro determinar le requirementos de vitaminas in le dieta de mosquitos.

► **Foresteria.**—Le numerosissime incendios forestari occurrente annualmente in le Statos Unite include circa 6000 que es causate per fulmines. Le Prevention de iste typo de incendio requireva le prevention de fulmines. Le statounitese Departamento de Agricultura ha initiate un programma de studios del comportamento de fulmines, includente essayos a causar un relaxation innocue de nubes fulminifere per inseminar los con iodido de argento. Le production de pluvia per tal inseminationes es nunc generalmente considerate como pauco promittente, sed on spera que iodido de argento pote servir al minus a reducir le potential fulminante de certe typos de nubes.

► **Expeditiones.**—Un gruppo de scientistas brasilian ab le Departamento National de Production Mineral e ab le Museo Goeldi va reunir se con un gruppo de statounitese collegas de illes qui veni ab le Museo de Historia Natural a New York pro explorar le region del curso superior del Jurua in Brasil. Le duo grupos va comenciar lor expedition cooperative a Cruzeiro do Sul. Lor interesses se concentra specialmente super depositos de fossiles.

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### GENERAL SCIENCE

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