

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Astronautica.—Dr. Su-Shu Huang del Centro Astronautic Goddard in Greenbelt, Maryland, ha reportate le disveloppamento de un plano pro capturar un asteroide. Un rochetta deberea primo esser atterrate al asteroide. Dirigitte per un computer, illo poterea modificar le curso del asteroide de maniera que le asteroide approcharea le terra e assumerea un orbita circum illo. Le studio de un tal asteroide esserea importante pro le theoria del origine del systema solar.

Biologia.—Studios del vegetation del deserto ha essite executate in Nevada, al sito de multe explosiones atomic, per Drs. Shields e P. V. Wells del Universitate Montaniari Nove Mexico. Illes reporta que nulle mal effectos es evidente in plantas que cresce a un distantia de 5 km o plus del centro del explosiones. Intra un distantia de 1 km le vegetation esseva eradicade per choc e calor, sed nonobstante illo restablixa se sin difficultate in le sequente saisons.

Entomologia.—Ex le decadente ligno de *Pinus ponderosa* un gruppo de scientistas forestari ha extrahite un substantia que fortemente attrahe formicas blanc a non importa qual material a que illo es applicate. Le discoperitores del attrahente es G. R. Esenter del Statounitese Servicio Forestari, e T. C. Allen, J. E. Casida e R. D. Shenefeld del Station Experimental Agricole de Wisconsin. Illes nunc analysa le structura chimic del substantia e studia su utilisation in le detection e elimination de formicas blanc.

Mineria.—S. I. Persson e C. H. Reynolds de Rochester, New York, ha patentate un apparato que distingue inter rocca e carbon, e que guida le operation de machinas minatori. Le apparato, que include probas in contacto con le minerales ante le machina, mesura le resistentia electric de iste minerales. Proque roccas es generalmente multo plus dur que carbon le nove apparato debe prolongar le vita del partes trenchante del machinas.

Nutrition.—Dr. W. H. Strain del Universitate Rochester reporta que le presentia de minute quantitates de vanadium e zinc es importante in le nutrition human. In certe regiones del sud-west del Statos Unite ubi vanadium es presente in le aqua le mortalitate es basse. Vanadium, secundo Dr. Strain, inhibi le formation de cholesterol, le excesso del qual es considerate como un causa de arteriosclerosis. Dr. Strain etiam reporta que le addition experimental de minute quantitates de zinc al alimento de porcos e aves domestic resultava in melior formation de osso, melior reparo de proteina, e un descrecite incidentia de disordines del pelle. Dr. Strain signala que le vita habeva su origine in le mar e que le fluido intercellular que constitue 30 pro cento del corpore human es essentialmente diluite aqua de mar; assi il es natural que le minerales trovate in aqua de mar es importante. Le longevitate del scandinavos possibilmente debe esser attribuite a lor dieta de pisces marin, que contine iste minerales.

Nutrition.—Pro evitar le effectos del contamination radioactive del atmosphaera il va forsan devenir necessari modificar multe practicas recommendate in le passato per nutritionistas. Sub le direction de Dr. E. P. Laug le statounitese Administration de Alimentos e Drogas ha conducite studios del nivello de radiation general e del concentration in alimentos de elementos radioactive. Al presente le nivello de radiation general non es tanto alte que un modification de nostre habitos dietari es necessari, sed il es probabile que le continuation del corrente serie de tests de bombas atomic va render un tal modification consiliabile in le

proxime futuro. Infortunatemente multe alimentos del plus alte valor nutritive, como lacte, cereales integre, vegetales foliose, e legumines, es etiam apte a concentrar radioactive strontium-90 quando isto es presente. Al altere latere, il es possibile eliminar le grande parte del contamination radioactive de fructos e vegetales per lavar e pellar los.

Pharmacologia.—Le compania CIBA ha establite un laboratorio scientific in Bombay ubi le activitate physiologic de 175 plantas de India ha essite studiate per Drs. S. S. Bhatnagar, H. Santapau, F. Fernandes, V. N. Kamat, N. J. Dastoor, e T. S. N. Rao del Collegio Sancte Xavier. Iste plantas es emplatee in le duo systemas de medicina tradiational de India, le systemas ayurvedic e urani. Un del plantas emplatee pro seculos in le medicina indian es *Rauwolfia serpentina* del qual le droga tranquillisante resperina esseva extrahite in 1952. Le recercatores constatava que ex le 175 plantas investigate 35 habeva un sol activitate specific, 29 exhibiva multiple activitates, e le remanente 111 esseva inactive.

Physica Atomic.—Dr. R. Wolfgang del Universitate California reporta que le procentage de tritium (hydrogeno-3) in methano es nunc multo plus alte que le procentage normal. Le procentage de tritium es etiam alte in le hydrogeno del atmosphaera e in vapor de aqua in le atmosphaera. Dr. Wolfgang atribue iste fenomeno a reacciones intra le balla de foco producite per explosiones thermonucleari.

Psychologia.—Dr. A. J. Glass, un psychiatro in le Armea Statounitese in Europea, reporta que le administration de placebos, i.e., substantias pharmacologicamente inerte, es frequentemente sequite per marcate effectos benefic. Tablettes de lactosa produceva definite melioration in 35 pro cento de un serie de pacientes de catarrho; le successos obtenite con tablettes a ingredientes active non esseva multo melior (si melior del toto). Post le administration de placebos a un serie de patients arthritic, 55 pro cento de illes reportave un alleviation de lor penas. Normal solution salin se provava efficace in reducir le penas postoperatori de multe pacientes. Naturalmente, le circumstantias del administration del placebos habeva un grande influenza super lor effectos.

Sociologia.—Un novelle studio de delinquentia juvenil es dirigite per Dr. Sophia M. Robinson del Instituto Graduate Adelphia de Sanitate, Education, e Benesser a Garden City, New York. Le novellitate del studio es apparente in le facto que su effortios es concentrate in le investigation objective del activitates, durante lor juventute, de adultos respectable. Iste individuos fortunatemente evitava arresto e prosecution, non deveniva criiminales, e nunc es utile e respectate citatanos. Le studio visa a determinar le frequentia de incidentes "delinquente" in le vita de homines "normal." Le constatationes preliminar del studio indica que su resultados forsan va esser tanto sorprendente como illos del studios sexual de Kinsey, e possibilemente memo plus importante pro le sociologia e le penologia.

Technologia Chimic.—Esseva disveloppate in Anglaterra un nove systema pro le detection e suppression de un explosion durante le parve fraction de un secunda ante que illo attinge un fortia critic. Le systema combina un sensor sensibile a pression, un valvula de escappamento actuante explosivemente, un suppressor que introduce un suppressante liquide, e un rapide valvula de isolation.

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