

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Archeologia.—Le etate de ancian objectos de vitro pote esser determinate per contar sub le microscopio le stratos de decomposition chemic que se forma a su superficie in parallela al rhythmo del annos. Le methodo esseva perfectionate per Dr. R. H. Brill del Museo de Vitro a Corning (New York). Per exemplo, in le caso de un fragmento de vitro excavate a Sardis in Turchia, le methodo Brill suggereva un etate de 1582 ± 10 annos, e secundo altere evidentia Sardis pare haber florite ab le tertie usque al septime seculo del era christian.

Biologia Marin.—Durante le viage epochal del submarino nucleari Seadragon sub le polo del nord in le etate del anno passate, specimens de plankton esseva colligite per medio de un ingeniose apparatus automatic attachate al exterior del turre de conducta. Iste specimens es currentemente analysate in le spero que illos pote clarificar le processos polar de intercambio inter le Oceanos Pacific e Atlantic.

Genetica.—Le numero del mutationes genetic inducite per irradiation ionisante in muscas de fructo (*Drosophila*) es reducite per circa 50 pro cento si le medio de cultura usate pro le muscas contine tracias del antibiotico actinomycina D. Iste constatation esseva facite per Dr. W. J. Burdette del Universitate Utah. Le antibiotico exerce le mentionate effecto jam quando su concentration in le medio amonta a solmente un millesimo de un pro cento.

Cardiologia.—Micre doses de iodo radioactive ha essite usate a bon successo in le alleviamento del dolores e del angustia de varie typos de morbo cardiac. Le iodo es absorbite selectivamente per le glandula thyroidic. Le radioactivitate del iodo deprime le activitate del glandula e secundarimente le metabolismo del corpore total. Assi le demandas facite al corde es diminuite; le causas del major dolores cardiac es reducite; e le patiente se senti melio. Iste nove typo de cardioterapia esseva disveloppate al Scholas Medical del Universitates California e Sud-California.

Recercas de Cancere.—Le incidentia de cancro es possibilmente correlacionabile con le radioactivitate natural del roccas intra un milieu particular. Iste radioactivitate varia significativamente intra comparativamente micre regiones geographic, a judicar per le resultados preliminar de un studio de geologos e medicos que es currentemente in progresso in le contato de Washington.

Hormonologia.—Investigatores britannic ha constatate que le infestation per parasitos helminthic differe inter ranas mascule e ranas feminin durante e immediatamente ante le periodo de lor activitate sexual. Ranas mascule es allora plus infestate que ranas feminin. Le theoria que le hormones sexual del ranas feminin protege los contra le infestation esseva testate per injicer in ranas mascule un preparato de hormon de sexo feminin. Le resultado esseva un reduction significative del numero de parasitos retrovate.

Scientias Atomic.—Dr. W. Libby, universalmente cognoscite per su origination de un methodo de datar substantias organic super le base de lor contento de carbon radioactive, es ingagate in recercas visante a elaborar methodos analoge pro le datation de substantias preorganic. Le methodo a carbon radioactive non es applicabile a specimens de etates de plus que 50.000 annos. Dr. Libby ha le ambition (e le spero) de trovar methodos pro datar specimens de etates de usque a 200 o 300 milliones annos.

Pediatria.—In certe centros medical de Sveda, infantes prematur con difficultates respiratori es placiate in ambientes a temperatura

abassate, con le objectivo de relentar lor metabolismo e reducer assi lor requirimentos de oxygeno. Stimulate per le presentia de duo profesores de intercambio de Sveda al Universitate California, ille instituto conduce currentemente in un de su laboratorios un investigation experimental del effecto de basse temperaturas corporee e ambiental super le mortalitate de animales de nascencia prematur. Le prime resultados pare corroborar le these svede de un effecto benefic de basse temperaturas.

Ornitologia.—Juvene aves del genere *Sialia* non apprende a cantar le canto typic de lor specie particular si illos non lo audi ante le etate de circa 15 menses. Illos disveloppa le capacitate de producer le appello e varie altere vocalisationes typic de lor specie sin ulle contacto con aves adulte. Solmente le canto debe esser apprendite per imitation e nunquam se disveloppa per instincto. Si juvenile sialias es tenite in isolation e allora es subitementamente exposite al audition de "lor" canto, illos reage excitamente ante le etate mentionate de 15 menses. Post ille etate, illos non reage del toto.

Statistic.—Le salario annual del scientista median del Statos Unite es \$9000. Un questionario distribuite per le Foundation National pro le Scientias a Washington ha monstrate que in 1960 un medietate de 110.000 scientistas respondente ganiava plus que \$9000 e le altere medietate minus. Le etate median de scientistas in empleos a tempore total esseva 38 annos. Le campos de occupation esseva recerca e disveloppamento pro 38 pro cento del respondentes, gerentia e administration pro 27 pro cento, e docentia pro 15 pro cento.

Metallurgia.—Le presentia de molybdenum in aqua in un concentration de non plus que un parte in un milliardo pote esser detegite per medio de un nove methodo disveloppate per scientistas del Statounitese Servicio Geologic. Le methodo es de importancia practic proque un aqua corrente a contento de molybdenum debe haber passate per un deposito de ille metallo, e tal depositos es usualmente associate con le presentia de varie altere metallas de urgente desirabilitate industrial.

Radiation.—In le volta de coffros forte de un banca a Seattle on ha discoperite un pacco de radium que un cliente—conscie del valor sed non del periculo de su possession—habeva deponite illic in 1945. Le inspection, per medio de contadores Geiger, in omne le altere bancas de Seattle ha resultate in nulle discopertas additional de iste genere.

Statistic Academic.—In 1959, le numero de personas obtenente le grado de doctor ab statounitese institutiones academic esseva 5300. Isto esseva un record. Le etate medie del novemente coronate doctores esseva 31 annos e medie. Le intervallo medie inter baccalaureato e doctorato esseva 8,1 annos. Le parte del leon esseva doctoratos de chimia. Lor total esseva 1.062.

Recercas de Cancere.—Esseva trovate que patientes con cancro del pelle ha un basse reaction pigmentatori a radiation ultraviolette. Il es probabile que iste characteristic reflecte un defecto physiochemic de importancia systemic plus tosto que restringitemente local.

Acustica.—Esseva demonstrate experimentalmente per Dr. B. W. Robinson del Laboratorios National de Physica in Anglaterra que le sono le plus exasperante pro le aure human ha nihil a facer con jets o autos o fabricas. Illo es le sono de un cultello grattante un pot metallic.

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GENERAL SCIENCE

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