

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Astronautica.**—Le problema del calor del reencontra de astronaves in le atmosphaera terrestre va probabilemente esser solvite super le base del mesme simple principio que explica proque un pote metallic sur le furno nunquam attinge un temperatura multo in excesso de illo de su contento. Si iste contento es aqua, le calor del pote non monta multo in supra de 100 C usque omne le aqua es evaporate. In le caso de astronaves on va usar un evaporabile revestimento (graphite, per exemplo) que ha un tolerabile temperatura de evaporation e que require grande quantitates de calor in su transformation ab solido ad gas.

**Philosophia Cultural.**—Nostre era es plus grande que lo que le majoritate de nos suppone. Isto es le opinion de Dr. Caryl P. Haskins, presidente del Institution Carnegie de Washington, e es formulate in su reporto annual. Nostre era—observa Dr. Haskins—ha omne le characteristics que (in retrospecto) nos discerne in grande periodos del passato. Nostre era ha le mesme conscientate, como ille previe periodos, del proximitate de nove frontieras in le mundo physic, le mesme fermentation ideologic, le mesme nove e violente demandas in le campo del organisation politic e social. Periodos de grande attingimentos intellectual e technic (como le nostre), es caracteristicamente accompagnate de incertitude e questionamento. Super iste base, Dr. Haskins conclude que le supreme deber del veniente decennios va esser pro nos de trovar medios que re-establi un ajustamento e equilibrio inter le nove poteres, le nove valores, le nove problemas, e le nove requirimentos de un latere e le intacte continuitate del principios e characteristics fundamental de nostre ethica social.

**Rheumatologia.**—Le frequente occurrentia de neuropathia peripheric in patientes con arthritis rheumatoide es un phenomeno—secundo un studio historico-statistic al Clinica Mayo—que non pote esser traciante in retro usque ante le introduction de cortisona e altere steroides in le therapia de arthritis rheumatoide. Il pare tractar se de un phenomeno de dishabituatio drogale. Le conclusion es que iste dishabituatio debe esser effectuate gradualissimemente.

**Alimentos.**—Le aroma de ostras bullite es causate primarimente per sulfuro dimethyllic. Iste constatation esseva facite al Universitate Wisconsin como parte de un investigation plus extense que visa a identificar le causas chemic de desirabile e indesirabile gustos in alimentos commun. Plus precise information in iste area pote esser usate in establir e mantener plus alte e plus objectivemente uniforme standards de gusto in le diverse productos del industrias alimentari.

**Telecommunicationes.**—Le Consilio pro Telecomunicationes del Commonwealth Britannic promove currentemente e con energia le plano de completar in circa 1964 un systema de cablos de telephonia totalmente circumglobal. Le nove cabo transatlantic—que essera complete in 1961 e que es designate (appropriatemente) como CANTAT—va esser supplementate per un simile cabo transpacific, con varie extensiones portante le costo total del projecto mundial a circa 225 milliones dollars.

**Astronautica.**—Le retrovate capsula de Discopertor XVII contineva specimens de tissu organic sub varie formas de protection. Le specimens se trovava durante 50 horas a un altitude de circa 1000 km a un tempore quando le activitate eruptive del sol esseva intensissime. Le observation del specimens depost lor retorno permette le sequente assertions: (1) Aluminio provideva un melior protection contra le radia-

tion cosmic que metallos pesante (como auro e plumbo). De facto, le metallos pesante esseva periculose a causa del generation secundari de radios X. (2) Le specimens organic includeva vive tissu ocular human (que es sensibilissime pro le effectos de irradiation ionisante). Iste tissu superviveva intacte. (3) Le specimens pare haber recipite non plus que 32 a 35 rad de irradiation in le curso del 50 horas de lor volo al altitude mentionate.—Iste constatationes indicarea que le irradiation cosmic non representa le formidabile barriera al futur astronavigation que on ha supponite. Tamen, altere reportos de data plus recente monstra que organismos vive es occidite a altitudes in le ordine de approximativemente 2000 km.

**Progresso Scientific.**—Le sequentes es le dece plus importante successos de 1960 in le dominio del scientias, secundo le selection de Dr. Watson Davis, director de Science Service: (1) Repetite successos in le lanceamento de satellites artificial pro objectivos meteorologic e telecommunicatori, e le re-atrappation de capsulas de satellite post prolongate volos circumglobal. (2) Photographia de systemas stellar del rango de nostre via lactee a distancias de sex milliardos annos lumine. (3) Hybridisation de gallo de India e gallina domestic, le prime cruciatio de duo familias de aves. (4) Le discoperta de precursores chemic de materia vive in meteorites, un indication del possibile existentia de vita in altere regiones del universo. (5) Autorisation del uso del vive vaccino oral antipoliomyelitic de Sabin. (6) Records de altitude in ballones con paracadite, demonstrante le capacitate del homine de supportar le condiciones del spatio extra-atmospheric. (7) Registration de undas cerebral ab cellulas solitari. (8) Le construction del si-appellate “maser optic” pro le amplification de lumine, que promitte esser de grande utilitate in photographia astronomic, diagnose medical, e telecommunication. (9) Le installation de un observatorio radiotelescopio pro le reception de signales possibile ab creaturas intelligente in altere corpores celeste. (10) Le fabrication de un steroide synthetic a potentia contraceptive que es obtenibile in forma de pillulas super le base de un prescription medical.

**Medicina General.**—Morsuras de serpentes esseva tractate a successo superior in experimento animal per medio del technica del si-appellate “perfusion isolate”. Le membro afficte—il debe tractar se de un gamba o bracio, sed felicemente quasi omne morsuras de serpentes concerne tales—es isolate per medio de un tourniquet. In le membro un circulation extracorporee es instituite per duo tubos inserite in un arteria e un vena. Alora iste circulation partial es tractate con antivenina (un preparato derivate ab le sanguine de cavallos immunisate) e eluite con sanguine a contento de heparina. Postea le tourniquet es relaxate, e le patiente recipe un transfusion conventional. Iste technica, disveloppate al Universitate California, ha non ancora essite applicate a humanos.

**Recercas de Cancere.**—Le uso de radioactive phosphato in le alleviamento del dolores de cancre de osso es cognoscite. Esseva trovate al Hospital pro Veteranos a Hines in Illinois que metaphosphato radioactive se localisa melio in o circum le osso cancerose que simple phosphato radioactive. Le agente esseva usate in combination con estrogeno.

**Statistica.**—In 1959, le numero total del mortes in le Statos Unite esseva 1.656.814.

**Astronautica.**—Le statounitense programma astronomic provide un rochetta lunar pro 1961 e rochettas veneric e martian pro 1963.

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## GENERAL SCIENCE

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