

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

➤ **Genetica.**—Es reportate ab Pietermaritzburg in Sud-Africa que un ratta vivente sub le conditiones del plus stricte surveillantia de un laboratorio universitari ha parturite duo vices, con un intervallo de 23 dies e sin contactos mascule durante al minus 29 dies ante le secunde parturition. Isto es le quarte tal caso reportate pro rodentes.

➤ **Medicina.**—Depost 70 annos medicos recommenda que feminas con tuberculose pulmonar evita pregnantias (o termina los per aborto therapeutic), proque—secundo le opinion corrente—pregnantias tende a complicar tuberculose. Isto es incorrecte secundo statisticas elaborate per Drs. L. M. Rosenbach e C. R. Gangemi de Philadelphia. In 90% del casos analysate per ille medicos, pregnantia coincideva con nulle alteration del pre-existente tuberculose, e in le casos in que tal alterationes esseva manifeste, illos constituiva meliorationes tanto frequentemente como peiorationes.

➤ **Technologia.**—Pro satisfacer le requirimentos del extreme mobilitate de truppas moderne, le arma statunitense ha initiate effortios a disveloppar un parve, leve, e potente motor vehicular que debe esser si incostose que in multe casos de disfunction il essera plus economic reemplaciar lo in toto que interprender su reparatura. Le motores nunc in uso produce circa un cavallo-vapor pro omne 16 cm³ de desplazamiento e omne quatro libras de peso a un costo de cinque o sex dollars per cavallo-vapor. Le objectivo es un cavallo-vapor per 8 cm³ per libra pro un dollar. Si isto es attingite, il se tractara probabilemente de un motor a turbina a gas.

➤ **Astronomia.**—Le invisible "lumine" ultraviolette del sol ha essite photographate per medio de cameras placiade in rochetas. Sin le adjuta de rochetas tal photographias es impossibile proque le atmosfera terrestre absorbe le plus grande parte del radiation ultraviolette. Si in loco de su presente capabilitates le oculo human habeva le capabilitate de perciper lumine ultraviolette e si le lumine ultraviolette del stellas non esseva absorbite per nostre atmosfera, le "celo stellate" essera multo differente del apparentia que nos cognosce in illo. Le lumine del luna essera extrememente debile, quasi imperceptibile. Le sol essera ancora le plus brillante corpore celeste ben que su luminositate essera reduce a un millesimo de un pro cento de su intensitate presente. Multe stellas e multe constellationes quasi disparera.

➤ **Biochimia.**—Le curiose facto que certe micro-organismos es thermostabile durante que alteres es plus thermolabile ha essite investigate biochimicamente per Dr. H. Koffler del Universitate Purdue. Dr. Koffler trova que le proteinas del flagellas differe structuralmente in le duo gruppos. In micro-organismos que supporta plus alte temperaturas, le proteinas del flagellas possede un proportionalmente plus alte resistentia a agentes chimic del classe que pote disrumper ligamines hydrogenic e hydrophobic, i.e., in illos iste generes de ligamines es plus forte.

➤ **Medicina Forense.**—Le diffusion de alcohol ab le stomacho continua post morte. Ergo un parve quantitate de alcohol ingerite per le victima de un accidente mortal brevemente ante su fin pote apparer in le sanguine del corde o del pulmones in tal concentrationes que le examine autoptico duce al conclusion erronee que le victima del accidente esseva intoxicate. Specimens del sanguine in le vena femoral es exempte ab iste genere de fallacia.

➤ **Hematologia.**—Es cognosce que hemophiliacos beneficia de transfusiones de sanguine solmente intra un limitate numero de administrationes. Postea le sanguine del patiente deveni capace a render le transfusiones inefficace. On ha suspicite depost longe tempores que le sanguine de hemophiliacos disveloppa un anticorpore contra le sanguine de transfusiones. Le prova del existentia de un anticorpore de iste genere ha nunc essite producite per Drs. P. Fontl e R. J. Sawers de Melbourne in Australia.

➤ **Physica Atomic.**—Strontium radioactive (un periculose producto lateral del fission atomic) es avidemente absorbite per plantas de utilitate agronomic. Le riscos inherente in iste facto es mitigate per le discoperta que calcium in le terra (providite que illo es de forma excambiabile) limita le absorption vegetal de radiostromium. Es etiam importante (e consolante) que le radiostromium que se depone in certe partes de un planta non se transfere a altere partes.—Recercas de Dr. W. H. Fuller del Universitate Arizona.

➤ **Geologia.**—Puteos exploratori in minas de carbon in le region sud-transdanubian de Hungaria va descender a profunditates de plus que un kilometro. Mesurationes preliminar indica que le temperaturas a expectar a tal profunditates va attinger 60 C. Comparabile profunditates ha usque nunc solmente essite attingite per medio de forationes exploratori. Mesurationes del temperaturas in puteos es plus exacte.

➤ **Phytophysiologia.**—Plantas possede un "senso de gravitate," i.e., illos differentia inter "in alto" e "a basso." Un gruppo de scientistas del Universitate Michigan ha avantiate un studio initiate per un gruppo de scientistas francese e nunc reporta que la substantia chimic acido N-1-naphthylphthamic, assurda le senso de gravitate del plantas sin exercer ulle altere effecto nocive. Plantas tractate con ille substantia cresce sin senso de direction. On spera que iste discoperta va stimular investigationes del natura e del mecanismo del "senso de gravitate" e de altere "sensos" in le regno vegetal.

➤ **Physica Atomic.**—In omne laboratorios medical que labora con radioisotopos e in multe altere locos il ha accumulationes de reiectos radioactive que es de massas considerabile e per consequente difficile e costose a abferer. Secundo Dr. L. B. Silverman del Universitate California, le problema pote esser simplicite per le uso de un typo de calcinador in que le materias in question es reduce a cineres. Iste cineres retine 99% del radioactivitate del substantia prime e es evidentemente multo minus voluminose.

➤ **Telegraphia.**—Le labor de incifrar le litteras de parolas e complete messages in le combinationes de "brevs" e "longos" del codice Morse pote esser executate (sin trainamento) per non importa qual secretaria si illa se servi del machina a scriber inventate pro iste objectivo per Leif Evensen de Narvik in Norvegia. Le claviatura del machina a scriber de senior Evensen ha un aere conventional. Tamen, su activation non resulta in litteras dactylographate sed in le electrosignales del codice Morse. Su capacitate maximal es 240 litteras per minuta.

➤ **Pisca.**—On ha disveloppate un alimento pro pisces, e specialmente tructas, que es si nutritive que duo libras de illo suffice pro producir un libra de carne de pisce.

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GENERAL SCIENCE

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