

# SCIENTIA INTERNATIONAL

## NOVAS DEL MENSE IN INTERLINGUA

**Aeronautica.** — Aeroplanos a reaction se atterra a enorme velocitates. Le Boeing-707, per exemplo, non pote reducer su velocitate de atterrage a infra circa 200 kilometros per hora. Ecce le causa del necessitate de construir de plus in plus grande aerodromos con de plus in plus longe pistas. Tamen, il pare que iste disveloppamento ha essite arrestate per un procedimento elaborate al Centro de Recercas Aeronautic a Langley in Virginia ubi on ha jam succedite a reducer le velocitate de atterrage del Boeing-707 per quasi 50 pro cento. Le procedimento consiste in un regulation del strato-limite inter le aere e le alas del aeroplano. In principio il se tracta de eijer aere sub alte pression ex foramines practicate in sitos strategic in le alas.

**Cancerologia.** — In le causation de cancere pulmonar, hereditate ha un certe subordinate rolo. Secundo Dr. P. R. J. Burch de Leeds in Anglaterra le factor hereditari vale non plus que 3 pro cento.

**Computatores.** — Ex le total de computatores electronic in servicio in le mundo integre, 90 pro cento se trova in le Statos Unite.

**Demographia.** — In le Statos Unite, 50 pro cento del population travaliante es occupate in industrias de servicio; 7 pro cento es occupate in le agricultura; inter 35 e 40 pro cento es occupate in le industrias de production.

**Medicina.** — Protoblastos es cellulas sin membrana cellular, i.e. cellulas embryonic. Quando un morbo infectiose es "curate", il pare ben possibile que le incriminate bacterios superviva in stato protoblastic. Isto explicarea le usque nunc mysteriose phenomeno del recurrentia de curate morbos infectiose, per exemplo pyelonephritis, sin le manifeste re-apparition del agente pathogene. Protoblastos non es detegibile con le methodos conventional de bacteriologia laboratorial. Drs. L. B. Guze e G. M. Kalmanson del Universitate California reporta experimentos in rattos in que inducite pyelonephritis esseva curate con penicillina sed in que nove methodos special demonstrava le presentia de protoblastos de bacterios pyelonephritogene durante al minus 13 septimanas additional. Remane le question de si tal protoblastos es capace de causar morbiditate per se mesme o si illos debe redisveloppar se in complete bacterios matur ante que illos pote redevenir potente agentes de infection.

**Medicina.** — Un enquete in Saigon (Vietnam) ha monstrate que quasi quatro quintos del population consulta medicos de orientation occidental e scientific. Le medicina sino-popular recede. Le mesme trend — minus pronunciate — se nota in le areas rural de Vietnam.

**Statistica Medical.** — In le Statos Unite de America, circa 12.500 subjectos mori omne anno ab ulcers intestinal.

**Technica Nucleari.** — Radioactive productos lateral (que representa un del obstaculos in le disveloppamento del pacibile technica nucleari) pote esser miscite con cemento in stato liquide e pumpate via forationes vertical ad in fissuras subterranea a profundores de plure centenas de metros, ubi le cemento se solidifica innocentemente.

**Telecommunication.** — On distingue duo typos de satellites de communication. Le typo "passive" reflecte signales recipite, durante que le typo "active" re-emitte los in forma amplificate. Satellites passive es plus simple, plus durative, e minus efficace que satellites active. Satellites active es plus productive, plus costose, e minus robuste que satellites passive. In le laboratorios del corporation IBM a Rockville in Maryland, un nove typo de satellite de communication se trova in un stadio terminal de perfectionamento, representante de facto un modello "passive" con le qualitates del modelos "active." Iste nove satellite reflecte e non emitte signales, sed illo es specialmente equipate a amplificar ille signales per combinar los (ante lor reflexion) con un radiation non-modulate que illo veni de recipir ab le ultime destinatario. Per exemplo: Un message destinate a London es emittite ab New York. Illo es visate verso le satellite pro esser reflectite in le direction de London. Tamen, al mesme tempore London emitte un non-modulate radiation que es etiam visate verso le satellite. Allora le satellite utiliza le energia del radiation ab London pro amplificar le message ab New York ante que illo reflecte lo verso London.

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## Questions

**AERONAUTICS**—What type of wings are required for supersonic airplanes? p. 358.

**ASTRONOMY**—What may be the cause of red spots on the moon? p. 360.

**BIOCHEMISTRY**—What new method is being used to study hereditary relationships between animals? p. 365.

**PHYSICS**—How were hypersonic sound waves produced? p. 355.

**PUBLIC HEALTH**—What percentage of tuberculosis patients are being treated at home? p. 357.

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