EXHIBIT A

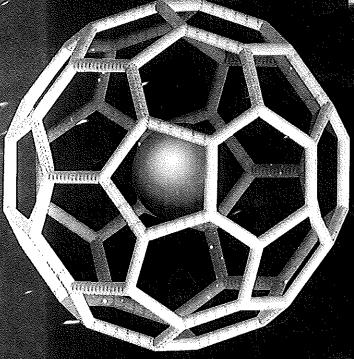
Case 2. Departmentally Separations

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On the cover: Representation of a fullerene molecule with a noble gas atom trapped inside. At the Permian-Triassic sedimentary boundary the noble gases helium and argon have been found trapped inside fullerenes. They exhibit isotope ratios quite similar to those found in meterorites, suggesting that a fireball meteorite or asteroid exploded when it hit the Earth, causing major changes in the environment. (Image copyright ® Dr. Luann Becker. Reproduced with permission.)

Over the six editions of the Dictionary, material has been drawn from the following references: G. M. Garrity et al., Taxonomic Outline of the Procaryotes, Release 2, Springer-Verlag, January 2002; D. W. Linzey, Vertebrate Biology, McGraw-Hill, 2001; J. A. Pechenik, Biology of the Invertebrates, 4th ed., McGraw-Hill, 2000; U.S. Air Force Glossary of Standardized Terms, AF Manual 11-1, vol. 1, 1972; F. Casey, ed., Compilation of Terms in Information Sciences Technology, Federal Council for Science and Technology, 1970; Communications-Electronics Terminology, AF Manual 11-1, vol. 3, 1970; P. W. Thrush, comp. and ed., A Dictionary of Mining, Mineral, and Related Terms, Bureau of Mines, 1968; A DOD Glossary of Mapping, Charting and Geodetic Terms, Department of Defense, 1967; J. M. Gilliland, Solar-Terrestrial Physics: A Glossary of Terms and Abbreviations, Royal Aircraft Establishment Technical Report 67158, 1967; W. H. Allen, ed., Dictionary of Technical Terms for Aerospace Use, National Aeronautics and Space Administration, 1965; Glossary of Stinfo Terminology, Office of Aerospace Research, U.S. Air Force, 1963; Naval Dictionary of Electronic, Technical, and Imperative Terms, Bureau of Naval Personnel, 1962; R. E. Huschke, Glossary of Meteorology, American Meteorological Society, 1959; ADP Glossary, Department of the Navy, NAVSO P-3097; Glossary of Air Traffic Control Terms, Federal Aviation Agency; A Glossary of Range Terminology, White Sands Missile Range, New Mexico, National Bureau of Standards, AD 467-424; Nuclear Terms: A Glossary, 2d ed., Atomic Energy Commission.

McGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS, Sixth Edition

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the range just above and just below the acoustic velocity. { tran'san ik 'flō }

transonic range [FL MECH] The range of speeds between the speed at which one point on a body reaches supersonic speed, and the speed at which all points reach supersonic speed. { tran'san ik 'ranj }

transonic speed [FL MECH] The speed of a body relative to the surrounding fluid at which the flow is in some places on the body subsonic and in other places supersonic. [tran'san ik 'spēd]

transonic wind tunnel [ENG] A type of high-speed wind tunnel capable of testing the effects of airflow past an object at speeds near the speed of sound, Mach 0.7 to 1.4; sonic speed occurs where the cross section of the tunnel is at a minimum, that is, where the test object is located. { tran'san ik 'wind tan'al }

transorbital lobotomy [MED] A lobotomy performed through the roof of the orbit. { tranz'or-bad-al la'bäd-a-mē } transosonde [ENG] The flight of a constant-level balloon, whose trajectory is determined by tracking with radio-direction-finding equipment; thus, it is a form of upper-air, quasi-horizon-lal sounding. { 'tran-za,sänd }

transparency [GRAPHICS] An image fixed on a clear base by means of a photographic, printing, chemical, or other process, especially adaptable for viewing by transmitted light. [orTiCs] The ability of a substance to transmit light of different wavelengths, sometimes measured in percent of radiation which penetrates a distance of 1 meter. { tranz/par-an-sē} transparency range [NUCPHYS] A postulated energy range for extremely high-energy heavy-ion collisions in which the projectile passes through the target and emerges with its temper-

ature and density raised to the point at which a quark-gluon plasma forms. { tranz/par-an-se ,rain } transparent [COMPUT SCI] Pertaining to a device or system that processes data without the user being aware of or needing to understand its operation. [PHYS] Permitting passage of

tadiation or particles. { tranz'par ont }
transparent medium [OPTICS] 1. A medium which has the
property of transmitting rays of light in such a way that the
human eye may see through the medium distinctly. 2. A
medium transparent to other regions of the electromagnetic

spectrum, such as x-rays and microwaves. { tranz'par ont 'mēd-ē om }
transparent sky cover [METEOROL] In United States weather-observing practice, that portion of sky cover through which higher clouds and blue sky may be observed; opposed

to opaque sky cover. { tranz'par-ont 'skī, kəv-ər } transpassive region [PHYS CHEM] That portion of an anodic polarization curve in which metal dissolution increases as the potential becomes noble. { tranz'pas-iv |rē-jən }

Vanspiration [BIOL] The passage of a gas or liquid (in the fem of vapor) through the skin, a membrane, or other tissue. [,tanz-pə'rā-shən]

transpiration cooling See sweat cooling. { ,trans/pə'rā-shən kill-in }

tensplantation [BIOL] 1. The artificial removal of part of a organism and its replacement in the body of the same or of adifferent individual.

2. To remove a plant from one location and replant it in another place. { ,tranz·plan'tā·shən }

tensplantation antigen [IMMUNOL] An antigen in a cell shich induces a histocompatibility reaction when the cell is tensplanted into an organism not having that antigen. [,tranz-plan'tā-shon 'ant-i-jən }

tansplantation disease [MED] Disease ascribable to an immunological graft-versus-host reaction which occurs after tansplantation of adult lymphoid cells to incompatible recipitets who cannot reject them. { ,tranz-plan'tā-shən di,zēz } tansplanter [AGR] A special kind of equipment designed for the planting of cuttings or small plants; it transports one or core workers who assist the action of the machine in placing thats in a furrow and covering them; it commonly supplies a scall quantity of water to each plant. { tranz'plan-tor } tansplutonium element [INORG CHEM] An element having

an atomic number greater than that of plutonium (94). { !tranz.plo'tō-nē-əm 'el-ə-mənt }

transpolarizer [ELEC] An electrostatically controlled circuit impedance that can have about 30 discrete and reproducible impedance values: two capacitors, each having a crystalline ferroelectric dielectric with a nearly rectangular hysteresis loop, are connected in series and act as a single low impedance to an alternating-current sensing signal when both capacitors are polarized in the same direction; application of 1-microsecond pulses of appropriate polarity increases the impedance in steps. { tranz'pō·lo₁rīz·or }

transponder [COMMUN] 1. A transmitter-receiver capable of accepting the challenge of an interrogator and automatically transmitting an appropriate reply. 2. A receiver-transmitter, such as on satellites, which receives a transmission and retransmits it at another radio frequency. { transpander }

transponder beacon See responder beacon. { tranz'păn der hê kan }

transponder dead time [ELECTR] Time interval between the start of a pulse and the earliest instant at which a new pulse can be received or produced by a transponder. { tranz'păndor 'ded ,tim }

Iransponder set [ELECTR] A complete electronic set which is designed to receive an interrogation signal, and which retransmits coded signals that can be interpreted by the interrogating station; it may also utilize the received signal for actuation of additional equipment such as local indicators or servo amplifiers. { tranz'pān·dər ,sct.}

transponder suppressed time delay [ELECTR] Overall fixed time delay between reception of an interrogation and transmission of a reply to this interrogation. { tranz'pan der sə'prest 'tīm di,lā }

transport [COMPUT SCI] 1. To convey as a whole from one storage device to another in a digital computer. 2. See tape transport. [EING] Conveyance equipment such as vehicular transport, hydraulic transport, and conveyor-belt setups. [NAV ARCH] A ship designed to carry military personnel from one place to another. Also known as troop ship. { trans port (verb), 'tranz,port (noun) }

transportable computer [COMPUT SCI] A microcomputer that can be carried about conveniently but, in contrast to a portable computer, requires an external power source. { tranz'pord o bol kom'pytid or }

transportation [GEOL] A phase of sedimentation concerned with movement by natural agents of sediment or any loose or weathered material from one place to another. { transportā shan }

transportation emergency [ENO] A situation which is created by a shortage of normal transportation capability and of a magnitude sufficient to frustrate movement requirements, and which requires extraordinary action by the designated authority to ensure continued movement. { ,tranz·pərˈtā·shən i,məriən·sē }

transportation engineering [ENG] That branch of engineering relating to the movement of goods and people; major types of transportation are highway, water, rail, subway, air, and pipeline. { transportā shan en ja,nir in }

transportation lag See distance/velocity lag. { trans par'tā-shan ,lag }

transportation priorities [ENG] Indicators assigned to eligible traffic which establish its movement precedence; appropriate priority systems apply to the movement of traffic by sea and air. { transportashan pri, ar ad ez }

transportation problem [IND ENG] A programming problem that is concerned with the optimal pattern of the distribution of goods from several points of origin to several different destinations, with the specified requirements at each destination. { ,tranz·pər'tā·shən ,präb·ləm }

transport capacity [ENG] The number of persons or the tonnage (or volume) of equipment which can be carried by a vehicle under given conditions. { 'tranz,port kə,pas əd·ĕ } transport case [ENG] A moistureproof nonconductive wood, plastic, or fabric container used to transport safely small

wood, plastic, or labric container used to transport safety small quantities of dynamite sticks to and from blasting sites. { 'transport cross section [PHYS] The product of the total

transport cross section [PHYS] The product of the total scattering cross section and the average value of $1-\cos\theta$, where θ is the laboratory scattering angle. { tranz,port 'kros, sek-shon}







