**LARA: Biologically inspired Engineering and Exploration Sys -----Original Message-----From: Linda Mennitt [mailto:felix.com@verizon.net] Sent: Mondatem Mission concept and components for lunar exploration and exploitation tools.** P.E. Clark1 (Contact Author), S..A. Curtis2, C.Y. Cheung2; M.L. Rilee1, G. Marr2; W. Truszkowski2, Contact address: Pamela Clark, Code 695, NASA/GSFC, Greenbelt, MD 20771, 301-286-7457, Pamela.clark@gsfc.nasa.gov; 1Affiliation: L3 Communications, Government Services, Inc., 3750 Centerview Drive, Chantilly, VA 20151, 2Affiliay, March 14, 2005 11:08 PMTo: commentsSubject: fair tax for all Adverse Tax Consequences tion: Code 695, NASA/GSFC, Greenbelt, MD 20771.

ANTS (Autonomous Nano Technology Swarm) Architecture is well suited to surface-based forms for use on the Moon or Mars or any relatively low G surface environment, as illustrated by an application called LARA (Lander-Antenna-Rover Arrays). ]. Here, we analyze the nature of components and sequence of behaviors required for spacecraft operational scenarios for an ANTS application in a low gravity surface.

**Introduction**: Basic structural compofor Same-Sex Couples 1.Health Insurance for Partners - A Taxing Proposition: Employees pnents would ayincome and payroll tax on the health insurance premiums their employers provide for dom, as in other applications, be highly modular, addressable arrays of more robust than Zero G carbon NEMS-based nodes, from which highly morphable struts, tethers, 2D mesh, and 3D fabric could be reversibly deployed for various functions. Individual craft would be releasedestic partners who do not otherwise qualify as dependents. Benefits for different-sex spo, possibly by a human crew on or near the Moon or from an unmanned facility. Individual craft would be capable of landing on a low G surface, using a miniaturized version of high impulse thruster technology, transforming into rovers, antennas, uses are not subject to this tax. 2.Flexible Spending Accounts Not So Flexible: Employeeor more specialized service providers, as needed, and ultimately taking off to return to the point of release.

**Methodology**: Ws can useflexible spending accounts to pay for a different-sex spouse's medical expenses,e have developed preliminary conceptual and physical models of spacecraft and components and models of the interaction of ANTS at the spacecraft level in order to determine hardware and software requirements for typical operations driven by operating on a low gravity surface to support a human crew.

**Discussion**: As in the other applications of the ANTS architecture, movement would not employ wheels, which work best in a special environment. Instead, the ANTS approach harnesses the effective skeletal/ muscular system of the frame itself to enable more ‘natural’ move including eyeglasses, prescriptions, and co-pays, on a pre-tax basis. These accounts canment, effectively allowinot be used for a same-sex partner, or even a same-sex spouse. 3.Retirement Savings - Deang ‘flow’ across a surface or into a particular morphological form. As rovers, craft would be equipped for exploring, prospecting, monitoring, as required. Craft could individually or collectively form cylindrical or bowl shaped arrays to act as antennas, for communication or astronomical observatories. The architecture would also be useful in the construction of tools and structures for human occth and Taxes: Tax treatment of retirementsavings, such as those found in 401(k) plans, pupation of permanent bases. ANTS structures, operating contirivileges spouses and penalizes same-sex couples. This means that on the death of a partnnuously or on demand, could be thus used for exploration, reconnaissance, er, the surviving partner is left not only with the same emotional loss that a different-communication, navigation, transportation, construction, permanent monisex spouse experiences, but also with an unfair tax bill. This is problem is made even motoring, or observation, protecting human crews and facilitating their work.

**Conclusions:**  The ANTS architecture is a promising approach for supporting human crew activities on the surface of the Moon or Mars as part of the new NASA iniativre acute by the fact that same-sex couples are denied survivors' benefits under Social See.

**Acknowledgment**: Support for this work has been provided through NASA contract NAS5-99189, subcontcurity, even though they pay the same payroll taxes as heterosexual workers. 4.Estate andract 0299189EER, with ITMI.

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