



PRESS RELEASE / COMMUNIQUE



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Nasa Astronaut Ron Garin

Thought Technology Participates in Canadian Space Agency Brain-Storming on Work in Isolated Environments



Montreal, January 31, 2008— Thought Technology Ltd., the world leader in biofeedback and neurofeedback biomedical devices is working to find better and more efficient ways of working in space.

The Montreal firm, upon the invitation of the Canadian Space Agency (with the support of the Office of the National Science Advisor) is a participant in a "Foresight Workshop" on prospective applications of convergent science and technologies addressing the needs and problems associated with **Health and Safety in Isolated, Confined and Extreme Environments** . This may include space, the arctic, underground or submarine environments. Thirty-five experts (scientists R&D and CEOs) and technology/products developers in the private sector will brainstorm on the potential mid to long term applications arising from the development and or convergence of their own spheres of expertise.

Thought Technology Ltd. has 30-years experience in research and development of micro-miniaturized biofeedback/neurofeedback equipment. Last Year, Thought Technology equipment was used by NASA, the **National Aeronautics and Space Administration** in experiments off the coast of Florida in an undersea lab.

Micro-miniaturization technologies have enabled NASA researchers to use commercially produced biomedical devices like the **FlexComp Infiniti(tm)** to do what used to take a wall full of equipment easily weighing over 1000 pounds. The device, manufactured by **Thought Technology**, the world's largest provider of medical and consumer biofeedback instrumentation, weighs less than a pound and has built-in data storage using flash memory cards.

For decades, NASA studied astronaut's physiological responses to zero gravity, living in outer space and staying in a space vehicles and space stations for extended periods of time. NASA conducted under water research, since the environment provides some useful similarities to working in space. Using off the shelf technology developed by Thought Technology Ltd., the device was a wearable outfit that recorded multiple physiological measurements simultaneously. The technology is ultra miniaturized, using a standard FlexComp Infiniti(tm) physiological encoder, storing data using flash memory cards. The astronauts, **Commander Dave Williams**, a Canadian Physician & CSA Astronaut, and **Ron Garin**, an American Astronaut, wore the "gear" throughout the day while living in an NOAA (National Oceanic and Atmospheric Administration) undersea habitat off the shore of Key Largo Florida, 65 feet below the surface.

The project, called Nemo Nine, was twenty-two days long, with the 2 astronauts participating. They wore the **FlexComp Infiniti(tm)** system for three of the mission days. NASA researchers were looking for the effects of isolation, workload and fatigue on individuals.

They recorded five measurements-- heart rate and electrocardiogram, respiration, skin conductance, hand temperature and finger pulse volume.

Thought Technology also produces the [GSR2](#), the world's best selling hand held electronic (computerizable) consumer Biofeedback device.

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- **Avis aux redacteurs/Notice to all Editors:**

Please find attached photo of DR.NICOLE BUCKLEY, Dir. Of LIFE & PHYSICAL SCIENCE, CSA together with

Dr. HAL MYERS, President, THOUGHT TECHNOLOGY Ltd.