

Vielight News

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"To send light into the darkness of men's hearts - such is the duty of the artiste."

Robert Schumann, German Composer

R&D centre to analyse brain function launched

Toronto-based hub will support PBM pioneer's research-based product development

VIELIGHT Inc., a pioneer in the field of photobiomodulation (PBM), commences operations this month at its new R&D centre, which houses state-of-the-art electroencephalography (EEG) and other equipment. It will also be a facility to provide clinical services to support the community's mental needs.

This initiative extends Vielight's leadership in the understanding of the brain's electrophysiological response to PBM intervention. Located on Downtown Toronto's Jarvis Street, the centre represents another milestone in Vielight's history



Dr. Genane Loheswaran

and is part of the company's continuous investment in life-transforming technologies and exploration of safe new solutions to improve brain functions. In March this year, Vielight had announced an allocation

of C\$3 million towards scientific research focused on photobiomodulation.

Dr. Genane Loheswaran, Research Manager at Vielight Inc, will head the centre, while overseeing the implementation of the advanced EEG systems. In addition to the cutting-edge research and innovation, which will come to define the facility's work, it will also be a hub for knowledge exchange between researchers, clinicians and product developers.

Speaking about the centre, Dr. Loheswaran said, "With this new initiative, we will bring together a visionary group



of researchers and neurologists to advance PBM technology, share the knowledge and prepare the path for our next-generation products."

The EEG systems at the Vielight facility have been designed and deployed by Electrical Geodesics Inc (EGI), a world leader in EEG diagnostics.

"Our work continuously unveils surprising new information about the potential of our technology to hack the body and

the brain," said Dr. Lew Lim, Founder and CEO of Vielight.

"We owe it to ourselves and the community at large to direct more resources into gaining deeper knowledge and translating them into improving the quality of life for the mentally ill, and exploring what the possibilities are to explore the frontiers of the human mind and body performance. The research centre provides us the tools to achieve these goals," he added.

Deepak Chopra probes consciousness with Neuro Pro

WELL-KNOWN international self-help guru and an authority in the world of consciousness, Dr. Deepak Chopra, was among the first people from the scientific community to try out the Vielight Neuro Gamma and the prototype of the Vielight Neuro Pro recently.

The world-acclaimed author of more than 85 bestselling self-development books also

shared his experiences about the device on his social media platforms, inviting appreciation from his fans and followers from around the world. Dr. Chopra is a celebrated personality in the alternative medicine world and actively advocates beneficial mind-based therapies such as meditation.

The Vielight Neuro Pro is currently in the experimental phase. Early observations are present-

ing its ability to modulate mental states and short-cutting immersion into advanced meditative states.

The Neuro Pro received positive feedback from knowledge leaders when the prototype was introduced to a select few visitors at the Science of Consciousness conference held in Tucson, Arizona, in April this year. The device is expected to be restrictive-ly available in early 2019.



Contact Us:

Editor: Edward D'Mello; edward@vielight.com; North America - +1-877-355-8012; International: +1-647-201-5499;
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Vielight's efforts in Alzheimer research hailed

CANINDIA, a popular Toronto-based weekly newspaper focusing on the Indian diaspora living in North America, has featured the achievements of Vielight in the field of photobiomodulation.

In its June 22 edition, *CanIndia* wrote specifically on the potential of photobiomodulation, or light therapy, to treat dreaded brain conditions, such as, Alzheimer. About 25,000 new cases of dementia are diagnosed each year, according to the Alzheimer Society of Can-

ada. It estimates that 564,000 Canadians have dementia right now. The Society warns that by 2031, more than 937,000 Canadians will have dementia.

Dementia, of which Alzheimer's disease comprises around 70 per cent of the cases, is the second leading underlying cause of death across the world. The average life expectancy after symptoms begin is eight years, with sufferers usually succumbing to complications of advanced debilitation, such as infection and malnutrition.

6 signs that your elderly parent may have memory loss

SUMMER is usually a time for family reunions and catching up with aged parents. However, it is also that time of the year when adult children notice that something is not quite right with their older parent's memory.

In an article written for *Bizjournals.com*, Dr. Kim Shellart, Director of Nursing, ERS Episcopal Church Home, has flagged some warning signs to watch out for in an elderly parent.

1. Weight changes: Many people with dementia forget to eat meals. Severe weight changes — up or down — can be an indicator that an elder is losing his or her memory.

2. Confusion or misplacement of items: Does your mom or dad forget the day, the month or season of the year? What you see can be the added stress of traveling, or can it be a sign that mom or dad is beginning to lose his or her memory?



3. Poor hygiene: Dementia sometimes makes people forget to bathe or trim their nails. They don't brush their teeth or comb their hair. They wear the same dirty clothes day after day.

4. Lack of coordination or motor control: Dementia does not just cause memory loss, it robs people of their ability to control their bodies. You might notice your dad or mum stumbles a lot, or shuffles as he or she walks.

5. Excessive tiredness or lack of activity: Your dad might sit around more than he used to because he has developed

chronic pain. Your mom might be depressed and missing your late father. They tire easily over the course of the day and, by sundown, they are exhausted, show difficulty in remembering things and controlling their emotions.

6. Language difficulties and confabulating: Does your mom often stumble over a word, then substitute an entirely unrelated word and move on as if there were no problem? This sort of behavior is called "confabulating," and it is a definite warning sign that an elder is losing his or her memory.

Mahta Karimpoor joins Vielight's R&D team



VIELIGHT is pleased to welcome Dr. Mahta Karimpoor who joins us as Research Scientist and Biomedical Engineering Specialist at our Toronto office.

At Vielight's new research hub, Mahta will be involved in device validation, test method development, study design, literature review and authoring technical papers and publications. She will also be involved in the implementation of advanced EEG systems and EEG data analysis to understand the effects of Vielight's Neuro devices on brain activity and behaviour.

In addition, Mahta will be deeply involved in the development of the Android interface on the Neuro Pro platform.

Mahta brings over 11 years of experience and knowledge, including expertise in medical devices, clinical research, neuro-imaging and neuro-degenerative diseases. She holds a B.Sc. in Electrical Engineering from the University of Tabriz, an M.Sc. in Medical Electronics and Physics from Queen Mary University of London and a Ph.D. in Medical Biophysics from the University of Toronto.

In the past, Mahta has con-

ducted research at the Sunnybrook Research Institute, using functional Magnetic Resonance Imaging (fMRI) to understand the complex relationship between brain activity and behaviour for clinical neuro-psychological tests widely used to assess brain function.

She has also developed a system that supports real-world human interactions during fMRI using augmented reality methods to provide realistic brain activity (this platform is currently being used at Sunnybrook and St. Michael's Hospital during fMRI scan sessions).

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