Can Workplace Design Really Enhance Creativity?

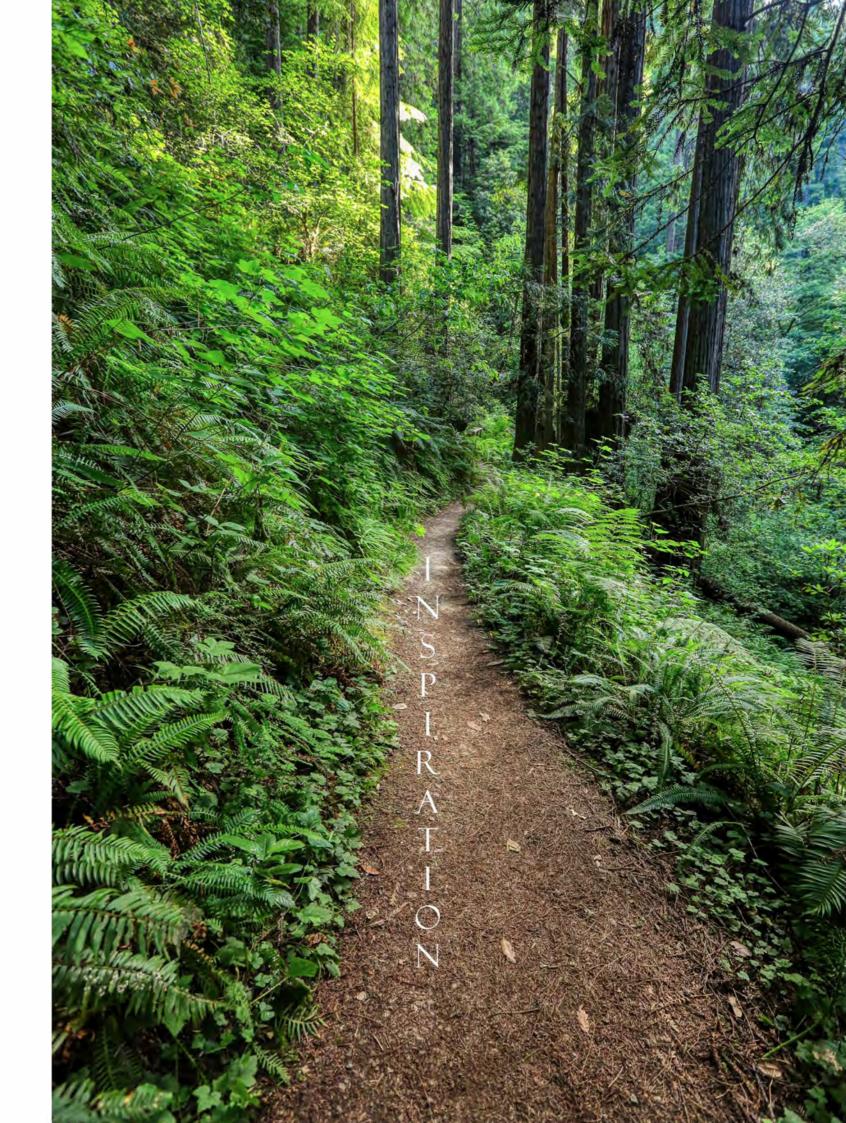
"Creativity is a hot topic with workplace designers. A stimulating, colourful, quirky, fun and buzzy office (sometimes including bean bags, slides and even trampolines) is often thought to contribute towards creativity and innovation. As such spaces set the tone for informal serendipitous interactions. However, studies show that the creative process not only involves people coming together to share and test ideas but requires long bouts of time in solitude thinking through and developing those ideas."

Nigel Oseland, Workplace Unlimited

or where you have your best ideas. It's asked volunteers to complete a divergent people have their eureka moment in the favoured exercise is the number of uses shower. So, it's ironic that some people for a common household object. Schooler have their best idea in the shower but found that the participants came up with Other activities, such as walking the dog, frequently reported as ideal situations complex task (building a Lego house) or for inspiration. It may therefore be doing nothing at all. Such researchers better to spend the morning in solitary believe that working in auto-mode results non-sedentary activities to develop those original ideas before meeting with col- Ordinarily the frontal lobes work hard leagues to share and validate them.

to us during lone activities because we are or brain blinking, is linked to insight and functioning in auto-mode, where we are ideas as it allows subconscious random predominantly focussed on a mundane, repetitive or routine task. Jonathan focussed.

Consider where you are most creative Schooler, of the University of California, no coincidence that Archimedes had his thinking task before and after three "eureka" moment in the bath. Research exercises with Lego. Divergent thinking and my own workshops reveal that many tasks are used to test creativity and a then rush to catch their train to the office. more imaginative uses for a house brick when they were conducting a mundane jogging in the park or driving, are also task (sorting Lego) rather than doing a in a transient dip in the frontal lobes. - problem solving, making decisions, memory, language and planning are just Some researchers believe that ideas come a few of their functions. The transient dip, brain activity to become conscious and



Daydreaming, or more accurately mind wandering, also allows us to archive information, moving it from short-term to long-term memory. Kalina Christoff, of the University of Columbia, used imaging and colleagues conducted a study of a to confirm that mind wandering evokes a call centre, with relevant embedded unique mental state that allows opposing regions of the brain to work together. Mind wandering facilitates problem solving through insight and that spark of an idea. Unfortunately, daydreaming in the office spaces. For restoration and reenergising, is often considered unproductive. This may be one reason why people like their by bringing planting indoors or providing own office, so they can daydream without a semi-covered terrace or garden area. As having to explain themselves. If seeking taking time out and away from the desk more innovation and enhanced creativity also assists creativity, colleagues should from colleagues, then provide more time be encouraged to take breaks by walking and spaces for solitary activities and mind amongst nature. wandering.

creativity and problem solving. Evolutionary psychologists Rachel and Stephen Kaplan have promoted the benefits of biophilic design since the early 1990s with reality. In her study, those immersed their introduction of Attention Restoration in virtual simulations improved their Theory (ART). They proposed that mental scores on divergent thinking tests by 15%. fatigue is reduced, whereas our ability to focus and concentrate are improved, with exposure to natural environments. The capacity of the brain to focus on a it we need unexpected experiences to specific stimulus or task is limited and unlock the synapses in other parts of the results in fatigue of "directed attention". However, when exposed to nature people New experiences might be travelling or feel refreshed and replenished because nature provides a setting for "non-taxing involuntary attention" enabling our direc- next to new people, or using a different ted attention capacities to recover.

impact of nature is that of Atchly, with alternative routes, biophilic shapes Strayer & Atchly, of Kansas University. and layouts, nooks and crannies, along **They compared performance on a series** with art and points of interest.

of creativity tasks before and after 4-6 days of back-packing in the wilderness and found an amazing 50% increase in performance on their return. Heschong objective performance metrics, and found that operatives with views out, access to daylight and greenery processed calls 6% to 12% faster than their colleagues in poorer the workplace should incorporate nature

New and original experiences can also Nature has also been found to improve improve creativity. Simone Ritter, at Radboud University, tested divergent thinking after participants were exposed to new experiences, created using virtual Ritter proposed that humans develop "functional fixedness", or stagnation, from repeated standard routines. To disrupt brain and open new neural pathways. bungee jumping, but it can also simply be taking a different route to work, sitting approach to doing the same tasks. So, provide opportunity for moving around One of my favourite studies on the and build interest into the workplace

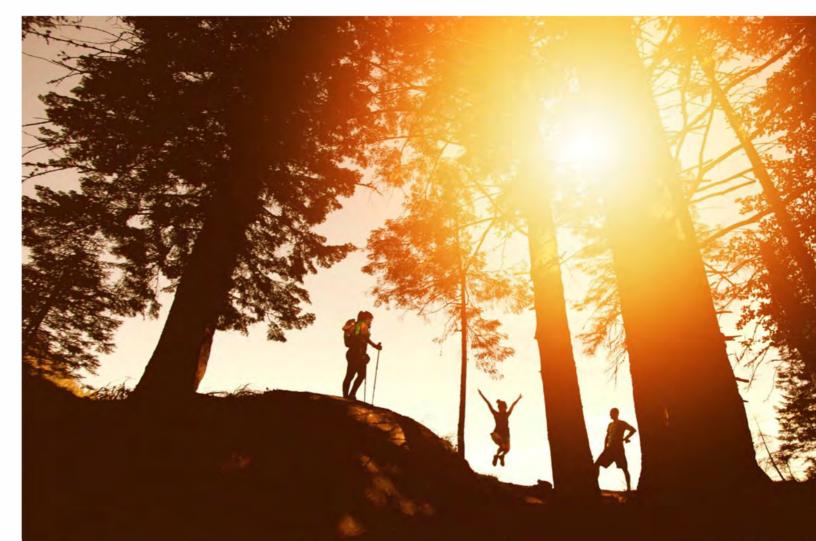
Journal of Biophilic Design THE SCIENCE

In summary, office designers tend to Heschong, L. et al (2004). Offices, focus on designing for creativity and windows and daylight: Call center worker performance. Proceedings from ACEEE collaboration, the fun and funky bits of Summer Studies on Energy Efficiency in the workplace. Ideas are indeed generated when brainstorming and socialising with Buildings, Panel 7, 98-110. European Council colleagues, but we also need to provide for an Energy Efficient Economy. places that foster mind wandering and attention restoration. Introducing nature Kaplan, S. (1995). The restorative benefits of into the workplace through biophilic nature: Toward an integrative framework. design is a more sensible starting point Journal of Environmental Psychology, 15, than bean bags and slides. 169-182

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