Contact us at life@dailyjm.com or call (864) 882-2375

Wednesday, August 8, 2012

TELL WILLIE:

A little lawn etiquette for the oblivious drivers... **C4**



INSIDE

Columnists C2 Entertainment C3 Community C4

The Journal C1

Seeing is believing believing in healing

FOR THE JOURNAL

An example of a prospect image fills the frame. It gives people a sense of being aware of their surroundings for a long distance, which is calming to many people.

Clemson University researcher connects human health and our environment

BY JESSICA SIBLEY THE IOURNAL

CLEMSON — The mind is a powerful thing, and so are the things that influence our mind.

When it comes to easing emotional pain, some say laughter is the best medicine.

When it comes to depleting physical pain, a vast array of remedies are within arms reach.

For Clemson University horticulturist, professor and researcher Ellen Vincent, it's more about tapping into our visual aptitude to tackle physiological and psychological

Thanks to an on-going research effort led by Vincent and her students at Clemson, plenty is being discovered about image viewing and stress relief.

"I've always been interested in the power that our environment has on our well-being," Vincent said. "That's why this current research is something I love so much."

Vincent describes the



ing research by referring to "Appleton's Prospect Refuge Theory." "Apple-

ton was a geography

professor at the University of Hull in England, she said. "He meticulously studied landscape paintings for real and symbolic content. His work resulted in three distinct categories. Prospect, refuge and hazard."

Vincent explained that each image used in her research prompted people in pain to respond in both psychological and physiological ways, depending on which of the three image categories were

displayed. "Prospect views allow the viewer to get a wide or high angle of the object," she said. "Refuge views contain areas where people could seek shelter, and hazard views portray an immediate threat to our

first phases safety. In my research, it was found that a mixed of her on-goimage of both prospect and refuge produced the most healing results."

Vincent and her research team used a "cold presser" technique on participants where they submerged their hand into ice water for 120

seconds. She recorded blood pressure and heart rates during the trials while asking participants to fill out surveys about how they were feeling throughout the process as they viewed the images.

Vincent also included a "control" group that was not shown any images.

"The mixed prospect and refuge image treatment showed significantly lower sensory pain responses, and the no-image treatment indicated significantly higher affective pain perception responses," she said. "Although there was no clear 'most' therapeutic image, the mixed prospect and refuge image showed significant potential to reduce sensory pain. The



landscape specialist, much is being

This is an example of a hazard image. Thanks to research being done by Ellen **Vincent, Clemson University professor** of horticulture and environmental

effective at distracting

it should not be consid-

scores of all groups."

ered a positive distraction

highest mood disturbance

Vincent went on to ex-

plain that in many hospi-

tals, much of the art that

lines the walls is modern,

which could be detrimen-

der extreme stress when

they are in the hospital,"

want to have to use heavy imagination when they look at things that are abstract. And, too, people who are sick find different things enjoyable versus people who are well and

That's why her research is near and dear to her

"If we can figure out what people really want to see to help their healing, we can reach out to administrators of hospitals and designers so they

can invest in what is most

According to her re-

search, "Views of nature

heart.

effective."

she said. "Many don't

"A patient is already un-

tal to overall healing.

hazard image was the most have been reported to relieve stress and pain, participants from pain, but making nature an ideal medium for use in healthcare settings. In hospitals because it also received the whose design does not allow for a view of nature, virtual and surrogate

> able therapeutic options." Vincent added that part of the reason she enjoys this research stems from the data that has already been recorded.

views of nature may be vi-

"Hard data will get people listening when they otherwise might not," she

said. "Researchers Ulrich, Lunden and Eltinge found that open heart surgery patients in Uppsala, Sweden, reported less anxiety when a nature photograph dominated by water was present than did patients with a view of an abstract picture or a blank white panel."

learned about certain images and their

being of people.

effects on stress level and physical well-

For information on Vincent's research, visit http://features.clemson. edu/creative-services/ faculty/2011/the-healingpower-of-nature/

jsibley@dailyjm.com | (864) 882-2375



This is an example of a mixed image that combines the aspects of prospect and refuge, which allows the viewer to feel safe and secure, as they have a long line of sight

and see areas where they can seek shelter if need be. This type of image produced the strongest positive response from people used in Ellen Vincent's research.



A mock hospital room is set up for research to show how certain images have an impact on pain and stress level.