Brain Signal Research at UD Could Help Surgeons Make Split-Second Diagnosis, UDRI Researchers Develop Process to Destroy Toxic Waste Through Solar-Powered Incineration

Follow this and additional works at: https://ecommons.udayton.edu/news_rls

Recommended Citation
https://ecommons.udayton.edu/news_rls/4980

This News Article is brought to you for free and open access by the Marketing and Communications at eCommons. It has been accepted for inclusion in News Releases by an authorized administrator of eCommons. For more information, please contact frice1@udayton.edu, mschlangen1@udayton.edu.
BRAIN SIGNAL RESEARCH AT UD
COULD HELP SURGEONS MAKE SPLIT-SECOND DIAGNOSES

How do people process and understand speech? In the University of Dayton's brand-new signal processing laboratory, graduate students are applying advanced electrical engineering techniques to analyze the brain's electrical signals. It's the type of research that could one day help surgeons make split-second diagnoses on the operating table and significantly improve a pilot's understanding and interpretation of all types of communication from within an airplane's noisy cockpit.

To arrange a media interview in the lab, call Teri Rizvi at (513) 229-3241 or John Westerkamp at (513) 229-3611.

UDRI RESEARCHERS DEVELOP PROCESS TO DESTROY TOXIC WASTE THROUGH SOLAR-POWERED INCINERATION

Two environmental scientists in the University of Dayton's Research Institute (UDRI) have spent nearly four years in the laboratory to devise a revolutionary way to destroy hazardous waste through solar-powered incineration. Barry Dellinger and John Graham's research, funded by the U.S. Department of Energy's Solar Energy Research Institute (SERI), holds promise as a practical solution to the multi-billion-dollar environmental problem of safely cleaning up the nation's Superfund toxic waste sites. The researchers say they have been able to destroy toxic wastes, such as dioxins and PCBs, in a matter of just seconds using highly concentrated simulated sunlight as an energy source.

Last month, Business Week magazine featured UD's research in its "Developments to Watch" column. During the last week in July, UDRI's solar concentration technique will receive a field test in a solar furnace in the New Mexico desert.

UD's environmental services laboratory contains a scaled-down thermal/photolytic reactor system the researchers used to simulate conditions typically found within a solar concentrator. To arrange an interview in the lab, call Teri Rizvi at (513) 229-3241 or John Graham at (513) 229-2846.

-30-

The University of Dayton

For further information or assistance in scheduling interviews, contact Public Relations and University Communications, 229-3241.