Alcohol Related Issues Underlying Active Safety Studies

Sean O'Connor, MD
Professor of Psychiatry and Biomedical Engineering
Indiana University School of Medicine and Purdue University
Scientific Director, Indiana Alcohol Research Center

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ABSTRACT
Impairment by alcohol remains the largest contributor to deaths in traffic safety. What properties of alcohol make it so difficult to detect the drunken driver? What approaches can be taken to minimize the consequences? What technologies are in development to detect the problem? What standards should apply? What studies can be performed in a simulator and what are the constraints?

BIOGRAPHICAL SUMMARY
Sean O'Connor, M.D., is a Professor of Psychiatry and Biomedical Engineering who has developed expertise in pharmacokinetics and pharmacodynamics, which he has applied to federally funded studies of the phenotypes used for the study of genetic predisposition to alcoholism, the development of biosensors to detect alcohol, and the application of intravenous infusion of alcohol to achieve prescribed time courses of the brain's exposure to alcohol. He is the Scientific Director of the Indiana Alcohol Research Center, and the Director of the Neural Systems Laboratory at the Indiana University School of Medicine.