

Plenary speaker abstract for the talk *Expert Judgment in Risk Analysis* by Mark Burgman at the 2013 First Global Conference on Research Integration and Implementation

This presentation outlines the fundamentals of risk perception and their implications for assessing and making decisions under uncertainty. It describes experiments that evaluate the relationship between an expert's status and their ability to estimate uncertain facts. It describes procedures that improve the accuracy and conditioning of expert estimates of facts. Finally, it outlines the results of a four year experiment organised by Intelligence Advanced Research Projects Activity (IARPA) in which participants predicted the outcome of various geopolitical events. The results highlight the benefits of structured question formats and structured group interactions for getting relatively high quality judgements out of experts.