

What's Up with Human Factors

How Should Standards Minimize the 'B-Word' (Bias) in Forensic Science?

Human
Factors
Committee



AAFS Meeting,
Seattle,
February 20, 2018

Members



- Tom Albright, Salk Institute
- Hal Arkes, Ohio State University
- Deborah Davis, University of Nevada, Reno
- John Hollway, University of Pennsylvania
- Rick Lempert, University of Michigan; NSF
- Erin Morris, LA County Public Defender
- Michael Risinger, Seton Hall Law School
- Dan Simon, University of Southern California
- William Thompson, Chair, University of California, Irvine

The Rise of “Cognitive Forensics”

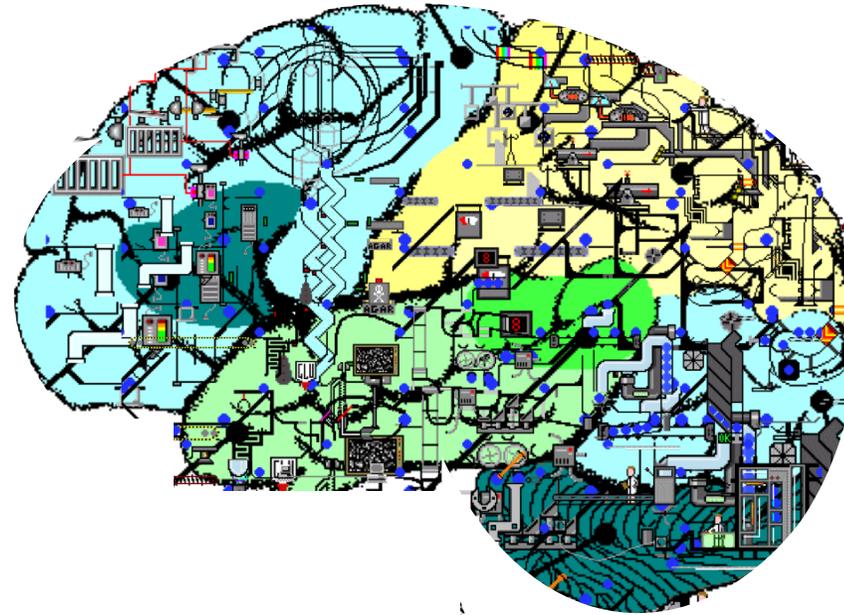
...cognitive research is ... making important contributions to [forensic science] The challenge for our profession is to encourage cognitive scientists to assist us...

--Bryan Found, *Australian J. Forensic Sciences* (2014)



Human Factors in Forensic Science

- What is the most important instrument in forensic science?
 - The human mind!



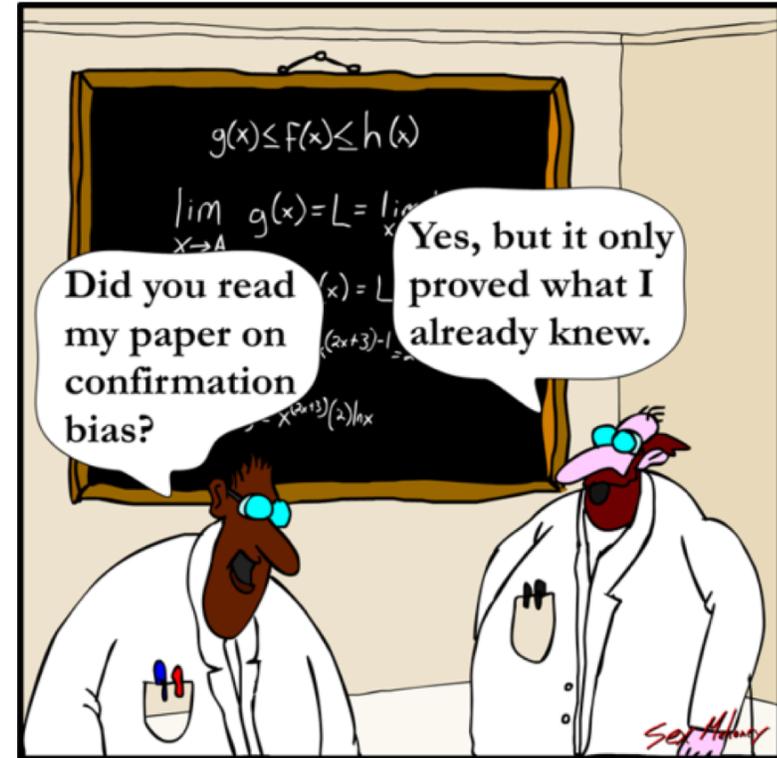
Special Concerns



- Reducing the potential for bias
- Improving assessment of examiner performance
- Improving communication of findings to lay audiences

Bias

- Identifying risks
- Proposing mitigation procedures
- Sharing examples of good practices
- Analyzing “task-relevance”
- Engaging with labs on research



Guidance on Testing Examiner Performance



- Purpose: validation; quality assurance; training
- Tips on: design, methods, analysis and reporting
- Engagement: OSAC-wide

Developing Standards for Reporting



- Criteria for Standards:
 - Justified logically and empirically
 - Understood by intended audience
- HFC Contributions
 - Identify strengths and weaknesses of reporting methods
 - Promote research
 - Interactions with CSAFE, labs, research community

Other Issues for HFC?



- Personnel selection
- Stress, fatigue and performance
- Forensic ergonomics
- Vicarious trauma
- You tell us...

We're here to help...

