

# Workshop on Field Evaluation of Behavioral and Cognitive Sciences-Based Methods and Tools for Intelligence and Counterintelligence

Board on Behavioral, Cognitive, and Sensory Sciences  
Division of Behavioral and Social Sciences and Education  
National Research Council

## AGENDA

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September 22 & 23, 2009

Keck 100

500 Fifth Street, NW

Washington, DC 20001

(Near Judiciary Square or Gallery Place metro stop)

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### ***DAY ONE: SEPTEMBER 22***

8:00            WORKSHOP CHECK-IN

8:20            WELCOME

- *Barbara Wanchisen*, Director  
Board on Behavioral, Cognitive & Sensory Sciences  
National Research Council

8:30            BACKGROUND & COMMITTEE GENESIS

- *Philip Rubin*, Committee Chair and CEO, Haskins Laboratories

### **◆ EXAMPLES OF BEHAVIORAL TOOLS & METHODS**

**Moderator:** Robert Fein, Forensic Psychologist, Harvard Medical School and Committee Member

*(20 minutes each; 10 minutes Q&A)*

8:45            PRELIMINARY CREDIBILITY ASSESSMENT SCREENING SYSTEM (PCASS)

- *Donald Krapohl*, Special Assistant to the Academy Director  
Defense Academy for Credibility Assessment

9:15            VOICE-STRESS TECHNOLOGIES

- *Philip Rubin*, Committee Chair and CEO, Haskins Laboratories

9:45            BREAK

*This workshop is sponsored by the Defense Intelligence Agency (DIA) and the Office of the Director of National Intelligence (ODNI)*

10:00 APOLLO  
• Charles Twardy, Research Assistant Professor, George Mason University

10:30 ALTERNATIVE COMPETING HYPOTHESES (ACH)  
• Neil Thomason, Senior Lecturer (retired), University of Melbourne and Committee Member

11:00 RESPONSE AND DISCUSSION

RESPONDENT REACTIONS

(15 minutes each)

- Steven Kleinman, Consultant and Strategist, Intelligence and National Security Policy
- Paul Lehner, Chief Engineer, Information Technology Division Center for Integrated Intelligence Systems, The MITRE Corporation

GENERAL DISCUSSION

12:30 WORKING LUNCH

◆ **MODELS OF EVALUATION IN OTHER FIELDS**

**Moderator:** Philip Rubin, Committee Chair and CEO, Haskins Laboratories  
(20 minutes each; 10 minutes Q&A)

1:30 CHALLENGES IN FIELD EVALUATION FOR EDUCATION  
• Grover (Russ) Whitehurst, Senior Fellow, Governance Studies and Director, Brown Center on Education Policy

2:00 VALIDATION AND EVALUATION PRACTICES IN THE HEALTH SCIENCES  
• Lisa J. Colpe, Senior Scientist, Division of Services and Intervention Research, National Institute of Mental Health

2:30 EVIDENCE-BASED PRACTICES IN CRIMINAL JUSTICE  
• Cynthia Lum, Deputy Director, Center for Evidence Based Crime Policy and Assistant Professor, Administration of Justice Department, George Mason University

3:00 HUMAN FACTORS AND ORGANIZATIONAL PSYCHOLOGY:  
APPLICATION TO TRAINING EVALUATION  
• Eduardo Salas, Professor, Institute for Simulation & Training, University of Central Florida and Committee Member

3:30 BREAK

3:45            RESPONSE AND DISCUSSION

RESPONDENT REACTION: Possible Application to Intelligence and Counterintelligence Community Needs (*15 Minutes*)

- Robert Boruch, Professor, Graduate School of Education and Statistics, University of Pennsylvania and Committee Member

GENERAL DISCUSSION

4:55            CLOSING COMMENTS

- Philip Rubin, Committee Chair and CEO, Haskins Laboratories

5:00            ADJOURN DAY ONE

## DAY TWO: SEPTEMBER 23

- 9:00 WORKSHOP CHECK-IN
- 9:10 WELCOME  
• *Barbara Wanchisen*, Director  
Board on Behavioral, Cognitive & Sensory Sciences, National Research Council
- 9:20 BACKGROUND & REVIEW OF DAY ONE  
• *Philip Rubin*, Committee Chair and CEO, Haskins Laboratories

### ◆ ETHICAL, REGULATORY, AND CULTURAL CONSIDERATIONS

**Moderator:** Philip Rubin, Committee Chair and CEO, Haskins Laboratories

- 9:30 ETHICAL CHALLENGES IN TRANSLATING  
PSYCHOPHYSIOLOGY AND NEUROSCIENCE TO  
TECHNOLOGY FOR INTELLIGENCE AND  
COUNTERINTELLIGENCE  
• *Adil Shamoo*, Editor-in-Chief *Accountability in Research*  
University of Maryland School of Medicine (20 minutes)
- COMMENTARY (15 minutes)  
• *Jonathan Moreno*, Professor, University of Pennsylvania Health System  
and Committee Member
- DISCUSSION

- 10:30 BREAK

### ◆ INTERNATIONAL PERSPECTIVES AND APPLICATION OF LESSONS FROM POLICING

**Moderator:** Philip Rubin, Committee Chair and CEO, Haskins Laboratories  
(20 minutes each; 10 minutes Q&A)

- 10:45 A U.K. PERSPECTIVE  
• *George Brander*, Department of Defense, United Kingdom
- 11:15 CANADIAN DEFENSE VALIDATION EFFORTS  
• *David Mandel*, Defence Scientist and Group Leader  
Defence R&D Canada – Toronto

11:45 APPLICATION OF LESSONS FROM FORENSICS  
• *Christian Meissner*, Associate Professor and Chair, Institutional Review Board, Department of Psychology, University of Texas at El Paso

12:15 WORKING LUNCH

1:15 RESPONSE AND DISCUSSION  
• *Committee Reaction*  
• *General Discussion*

◆ **SUMMATION AND IMPLICATIONS**

**Moderator:** Philip Rubin, Committee Chair and CEO, Haskins Laboratories

2:45 SUMMATION, DISCUSSION, AND SUGGESTIONS FOR FUTURE EVALUATIONS

SUMMATIVE COMMENTS

• *Robert Fein*, Forensic Psychologist, Harvard Medical School and Committee Member

COMMITTEE REACTIONS

GENERAL DISCUSSION

3:45 CLOSING COMMENTS  
• *Philip Rubin*, Committee Chair and CEO, Haskins Laboratories

4:00 ADJOURN