Applied Issues in Investigative Interviewing, Eyewitness Memory, and Credibility Assessment

Barry S. Cooper • Dorothee Griesel
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Editors

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Preface

In July 2007, we co-chaired a *Festschrift*—German for celebration of career—conference as a tribute to John Yuille when he became a Professor Emeritus at the University of British Columbia (UBC) in Vancouver, British Columbia, Canada. Co-chaired with Donald Dutton and Judith Daylen, the conference at UBC celebrated the illustrious and pioneering forensic psychology career of John Yuille. Together with Donald Dutton and Robert Hare, John Yuille formed the first forensic psychology program in Canada in the mid-1980s at UBC. Also pioneering is the reality that John Yuille spent his academic and applied career as a forensic psychologist breaking new ground in the areas of investigative interviewing, eyewitness memory, and credibility assessment—domains that, not surprisingly, formed the themes for the present volume. Indeed, John Yuille developed and subsequently revised the Step-Wise Interview Guidelines, an investigative tool used around the world by interviewers tasked with eliciting accounts of alleged crimes from a variety of types of forensic interviewees. Together with Judith Daylen (formerly Cutshall), he conducted the first field study of eyewitness memory with actual eyewitnesses in the late 1980s. John Yuille has subsequently challenged the status quo in the eyewitness memory arena, and has made calls for more ecologically valid research in order for psychology to be in a better position to assist the triers of fact in their decisions. As well, he was instrumental in bringing a European developed method for assessing credibility of statements to North America (e.g., he organized a NATO funded conference in Italy in 1988, which was attended by both European and North American participants); he has since refined the approach and has conducted extensive research on the topic.

In many ways, the areas of investigative interviewing, eyewitness memory, and credibility assessment are inherently interrelated. For example, an effective investigative interviewer uses knowledge of memory processes and patterns to ask memory and interviewee compatible questions while using knowledge of empirically based tools and skills to assess the credibility of the interviewee's statement. John Yuille has researched these areas extensively in addition to providing related training and consulting to every type of professional involved in the criminal justice system—from law enforcement to the Judiciary. Although his academic career has

come to an end, he remains active in his role as Chief Executive Officer for The Forensic Alliance, a company that provides research, training, and consulting services to various facets of the criminal justice system, typically concerning the intertwined areas of investigative interviewing, eyewitness memory, and credibility assessment.

The Festschrift conference and the present volume were both meant to honor John Yuille. In addition to a talk by John Yuille, a number of professionals from a variety of disciplines that were, in some way, influenced by his work or, conversely, have influenced his work, provided talks at the Festschrift conference. These included Donald Dutton, Robert Hare, Judith Daylen, John Pearse, Ian Prescott, John Yarbrough, Wendy van Tongeren Harvey, Chief Judge Gerald Seniuk, Paul Ekman, Hugues Hervé, and the editors of this volume. Some of the speakers in addition to a number of other recognized professionals, including John Yuille, provided chapters for the present volume.

This volume is organized into four parts: (1) *Historical Views and Broad Perspectives*; (2) *Investigative Interviewing*; (3) *Eyewitness Memory*; and (4) *Credibility Assessment*. In the opening chapter, John Yuille provides a historical yet critical analysis of the science of psychology, in particular the field of eyewitness memory, and makes a renewed call for more field research on the topic. The second chapter, by Chief Judge Seniuk, discusses certain challenges associated with credibility assessment from the perspective of the Judiciary and provides suggestions for redress by applying insight from the phenomenon of fuzzy logic. In the third chapter, Dave Walsh and Ray Bull review the area of investigative interviewing of benefit fraud suspects in the United Kingdom and promote effective interviewing through a discussion of the PEACE model. The fourth chapter, authored by John Yarbrough, Hugues Hervé, and Robert Harms, discusses the sins of investigative interviewing and offers suggestions for effective interviewing from the perspectives of science and the experience of seasoned law enforcement professionals.

In the fifth chapter, Hugues Hervé, Barry Cooper, and John Yuille attempt to explain the memory variability observed in eyewitness research and practice from the perspective of a biopsychosocial model of eyewitness memory. Following is a review of the scientific case study research on children's memory for sexual abuse by Pedro Paz-Alonso, Christin Ogle, and Gail Goodman, during which they promote a multi-method approach to examining eyewitness memory issues. In the seventh chapter, Ronald Fisher, Aldert Vrij, and Drew Leins provide a review of research and theoretical perspectives on inconsistent witness accounts to answer the empirical question of whether inconsistency is suggestive of deception and/or inaccurate memory. Deborah Connolly and Heather Price then further review the research on the effects of repeated interviews on memory consistency and discuss the results of a related novel field study.

In the first chapter in the fourth part of the present volume, Leanne ten Brinke and Stephen Porter discuss their Dangerous Decisions Theory of examining credibility and promote empirically valid training in the area via the amalgamation of field and laboratory research on the topic. In the next chapter, the late and beloved Maureen O'Sullivan reviews her research on Truth Wizards and offers insight into

how such experts of evaluating truthfulness make their decisions. As she died since the submission of her chapter, her contribution is presented in a relatively unedited form, in part, as a tribute to her. May Maureen O'Sullivan rest in peace and her legacy of high quality research be continued by the next generation of deception researchers. In that vein, her contribution is followed by chapter eleven, authored by Kevin Colwell, Cheryl Hiscock-Anisman, and Jacquelyn Fede, who introduce a novel approach to assessing credibility through their research paradigm of Differential Recall Enhancement.

In the twelfth chapter, Dorothee Griesel, Marguerite Ternes, Domenica Schraml, Barry Cooper, and John Yuille dispel some misperceptions about Criteria-Based Content Analysis and provide examples of how to apply this complex procedure via examples from field research and actual credibility assessments. Finally, the book fittingly ends with the thirteenth chapter by Jeffrey Hancock and Michael Woodworth who review the relatively new and very promising area of detecting online deception.

As can be seen, the present volume is an amalgamation of theoretical, research, and practical perspectives from individuals from different countries and from a variety of different disciplines in the criminal justice system, all of whom are concerned with the interplay between investigative interviewing, eyewitness memory, and credibility assessment.

This volume would not have been completed without the dedication, encouragement, and hard work of a number of different individuals. Thanks to Simone Viljoen and Erin Hutton for assisting in the organizing of the Festschrift conference, which resulted in the present volume. Melody Nelson deserves special credit as she was of tremendous assistance during the early stages of the editing process. Similarly, we appreciate the contributors for the present volume who served as peer reviewers. As well, thanks to Sharon Panulla, Sylvana Ruggierllo, and Ethiraju Saraswathi from Springer Science+Business Media for their patience, assistance, and unwavering confidence. Finally, thanks to Mario, owner of a Vancouver coffee shop, where much of this volume was edited, with free espresso to boot. Grazie, Mario!

Vancouver, BC, Canada
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About the Editors

Dr. Barry S. Cooper is a Registered Psychologist in Vancouver, BC, Canada, practicing in the forensic arena. He received an M.A. and Ph.D. in Forensic Psychology at the University of British Columbia (UBC) where he met and was mentored by Dr. John Yuille. A former Senior Psychologist for the Correctional Service of Canada, Dr. Cooper is a Psychologist for the Forensic Psychiatric Services Commission at the BC Forensic Psychiatric Hospital. He is a Clinical Instructor in the Department of Psychiatry at UBC and an Adjunct Professor in the Departments of Psychology at UBC-Okanagan and Simon Fraser University. In addition, Dr. Cooper is in private practice which involves assessment and consultation services to law enforcement, lawyers, corrections, and the Judiciary. He is also a founding Partner and Director of Research and Development for the Forensic Alliance, a research, training, and consulting company headed by Dr. Yuille. Dr. Cooper's research and clinical-forensic interests include investigative interviewing, eyewitness memory, credibility/malingering assessment, risk assessment, and psychopathy. He has provided training to various groups including law enforcement, child protection, mental health professionals, lawyers, corrections, and the judiciary. Dr. Cooper has also provided evidence at BC Review Board hearing and has served as an expert witness in court for both the prosecution and defence.

Dr. Dorothee Griesel belongs to the Gesellschaft für Wissenschaftliche Gerichts- und Rechtspsychologie (GWG) in Munich, Germany—a network of forensic psychologists and psychiatrists. As an expert witness, she provides credibility assessments in the context of criminal law, family law, and compensation claims. In this line of work, she benefits tremendously from her training with Dr. John Yuille. She was first introduced to his research on autobiographical memory for violent events during a practicum in the Forensic Psychology Lab at the University of British Columbia (UBC) in 2001. In 2002, she completed her Diploma in Psychology at Mannheim University in Germany and entered the Ph.D. program in Forensic Psychology at UBC under John's supervision. She also received training in Counseling Psychology and completed a predoctoral internship at the Health and Counseling Centre at Simon Fraser University. Dr. Griesel's dissertation was a

field investigation of sex trade workers' narratives of sexual violence. She completed her Ph.D. in 2008. In 2007, when John became a Professor Emeritus, she participated in organizing his Festschrift conference at UBC, which set the stage for the present book.

Dr. Marguerite Ternes has worked for the Correctional Service of Canada's Addictions Research Centre since 2009. Since 2011, she has also been a lecturer of Forensic Psychology at the University of Prince Edward Island. After completing her undergraduate degree at St. Francis Xavier University, she began graduate studies in Forensic Psychology at the University of British Columbia. She completed her Masters in 2003 and her Ph.D. in 2009, both under the supervision of Dr. John Yuille. Mentored by Dr. Yuille, her research interests include autobiographical memory, suggestibility, investigative interviewing, and credibility assessment. Her Masters research investigated eyewitness identification performance in a group of adults with intellectual disabilities, while her dissertation explored verbal credibility in the memory accounts of violent offenders. Dr. Yuille instilled in Dr. Ternes an appreciation for the importance of ecological validity in forensic psychological research, values which Dr. Ternes practices and advocates in her current positions. When Dr. Yuille retired in 2007, she was part of the team that organized a Festschrift conference in his honor, which led to the present volume.

List of Contributors

Ray Bull is Professor of Forensic Psychology at the University of Leicester. His major research topic is investigative interviewing. In 2010, Ray was “Elected by acclaim” an Honorary Fellow of the British Psychological Society “for the contribution made to the discipline of psychology.” In 2010, he received from the Scientific Committee of the Fourth International Conference on Investigative Interviewing a “Special Prize” for his “extensive contributions to investigative interviewing.” In 2009, Ray received from the “International Investigative Interviewing Research Group” the “Senior Academic Award” for his “significant lifetime contribution to the field of investigative interviewing.” In 2008, Ray received from the European Association of Psychology and Law an “Award for Life-time Contribution to Psychology and Law.” In 2005, he received a Commendation from the London Metropolitan Police for “Innovation and professionalism whilst assisting a complex rape investigation.” He has advised a large number of police forces in several countries on the interviewing of witnesses and of suspects, and he has testified as an expert witness in a considerable number of trials. He has authored and coauthored a large number of papers in quality research journals and has coauthored and coedited many books including *Investigative Interviewing: Psychology and Practice* (1999—a second edition is now being written) and *Witness Identification in Criminal Cases* (2008). He has been an invited speaker at a variety of meetings around the world. In recognition of the quality and extent of his research publications, he was in 1995 awarded a higher doctorate (Doctor of Science).

Dr. Kevin Colwell is an Associate Professor in the Department of Psychology at Southern Connecticut State University in New Haven, CT. He began studying investigative interviewing and credibility assessment in 1994 as a member of Dr. Hiscock-Anisman’s CBCA grant. This was the beginning of their long and productive collaboration. This early work was made possible by information and materials provided by Dr. John Yuille. The first series of studies focused upon college students and inmates who witnessed staged thefts. The results of the study

were not powerful, but the things they learned were. What they learned was that interviewing was the most important aspect of detecting deception. Because of this, Kevin's Master's Thesis (1997) and his Doctoral Dissertation (2002) both focused on matching interviewing to facilitate the detection of deception with content criteria derived from motivation and memory. Dr. Hiscock-Anisman was the Chair of both efforts. They created the Reality Interview and compared it to the Cognitive and Step-Wise interviews to study how mnemonics and forced-choice questions interact with the relative cognitive and interpersonal demands of honest vs. deceptive responding. This research led directly to the ACID system, which is literally a synthesis of the interviews and content criteria studied during the thesis and dissertation. They have been continually involved in studying investigative interviewing to detect deception, and training others how to do so. Kevin, along with Dr. Hiscock-Anisman, has also conducted a number of studies examining the subjective experience of participants during investigative interviews to learn how people attempt impression management and deception, across cultures. He hopes that it can inform a general theory of interpersonal deception during interpersonal interactions at some point in the future.

Dr. Deborah A. Connolly earned her Ph.D. and her LL.B. from the University of Victoria. She is currently an Associate Professor of Psychology at Simon Fraser University. Dr. Connolly's research focuses on memory for repeated events: how are repeated events organized in memory? What does the criminal justice system expect of memory reports from witnesses who report having been repeatedly victimized? Are the expectations reasonable, and how can we help victims to report details of the offence in a way that is consistent with the needs of the criminal justice system? We are indebted to Professor John Yuille for challenging us to test our beliefs about memory for crime with participants who have a memory for crime. Applied work is essential if we are to have an impact on the criminal justice system.

Dr. Barry S. Cooper (see About the Editors)

Jacquelyn Fede received her B.A. in Psychology from Southern Connecticut State University where she is a graduate student. For the past 2 years, she has worked with Dr. Kevin Colwell as a research assistant studying the use of forced-choice questions for witness selection as well as distinguishing between honest and deceptive children's statements. She has also assisted in studies of ACID and deception via the Internet. Jacquelyn is currently working towards her Master's degree and intends to continue education thereafter.

Dr. Ronald P. Fisher is currently a Professor of Psychology and is a member of the Legal Psychology Ph.D. program at Florida International University. He received his Ph.D. from Ohio State University and has held academic positions at the University of Toronto and UCLA. Ron has published extensively in both theoretical and applied aspects of memory, and currently serves as the editor-in-chief of the *Journal of Applied Research in Memory and Cognition*. Ron is best known for

developing the Cognitive Interview technique to enhance witness recollection (Fisher & Geiselman, 1992: *Memory-Enhancing Techniques for Investigative Interviewing*). He has conducted many training workshops on the Cognitive Interview with investigative agencies such as the FBI and the National Transportation Safety Board. He has also worked with several federal agencies both in the U.S. and abroad, including NASA, the U.S. Army and Navy, the British and Australian Police, and the Israeli Air Force. Ron served on the Planning and Technical Working Groups of the U.S. Department of Justice to develop national guidelines on collecting eyewitness evidence (*Eyewitness Evidence: A Guide for Law Enforcement*). His current research also examines the areas of detecting deception and understanding the causes and implications of witnesses recalling events inconsistently.

Dr. Gail S. Goodman is Distinguished Professor of Psychology and Director of the Center for Public Policy Research at the University of California, Davis. Her research concerns memory development, child maltreatment, trauma and memory, and children in the legal system. She has received many awards for her research and writings, including the James McKeen Cattell Award for Lifetime Contributions to Applied Psychological Research from the Association for Psychological Science; Urie Bronfenbrenner Award for Lifetime Contribution to Developmental Psychology in the Service of Science and Society; and two Distinguished Contributions awards from the American Psychological Association (the Distinguished Contributions to Research in Public Policy Award and the Distinguished Professional Contributions to Applied Research Award). Dr. Goodman is the upcoming president of Division 7 (Developmental Psychology) of the American Psychological Association and has served as president of several other divisions/sections, including the American Psychology-Law Society. She has published widely and received many federal, state, and foundation grants, and her research has been cited in U.S. Supreme Court decisions. Dr. Goodman's Center for Public Policy Research brings science to policy on behalf of children and families in California. She obtained her Ph.D. in Developmental Psychology from UCLA and conducted postdoctoral studies at the University of Denver and the Université René Descartes in Paris, France. Dr. Goodman has served on the faculty of the University of Denver, the State University of New York, and the University of Oslo, Norway. She has consulted with numerous governments and agencies throughout the world on policies and research concerning child victims in the legal system. She first heard of Dr. Yuille's research on eyewitness memory as a post-doctoral fellow, was honored to meet with him to discuss child witness research, and has followed his writings and studies ever since.

Dr. Dorothee Griesel (see About the Editors)

Dr. Jeff Hancock is an Associate Professor in the Departments of Communication and Information Science. He is currently the Chair of the Information Science Department and the Co-Director of Cognitive Science at Cornell University. He is also Associate Editor of *Discourse Processes*. His work is concerned with how

social media affect psychological and interpersonal processes, with a particular emphasis on understanding how language can reveal psychological and social dynamics, such as deception and credibility, emotional contagion, intimacy and relationships, and social support. Funding from the National Science Foundation and the Department of Defense supports his research, which has been frequently featured in the popular media, including the New York Times, CNN, NPR, and the BBC. Dr. Hancock earned his Ph.D. in psychology at Dalhousie University, Canada, and joined Cornell in 2002.

Robert Harms was a 31-year veteran of the Los Angeles County Sheriff's Department and held the rank of Detective Sergeant. During his career, he had worked a wide range of assignments, including the Crime Lab, Custody, Patrol, Vice, Intelligence, Organized Crime, Narcotics, and as a Coroner's Investigator. He has instructed at the Los Angeles County Sheriff's Training Academy, the Federal Law Enforcement Training Center, and before other Federal, State, and Local Law Enforcement personnel, civilian groups and organizations on various subjects. He is a national instructor in Analytic Interviewing, Hate and Bias Crimes, Undercover Investigative Techniques, and Case Management. He has trained personnel from U.S. State Department—Foreign Service Institute, National Counter Intelligence Executive, The U.S. Army, Federal Bureau of Investigations, The Department of Defense, Central Intelligence Agency, U.S. Secret Service, and the Bureau of Alcohol, Tobacco, Firearms and Explosives, to name a few. He was profiled three times on the show "L.A. Detectives" (A & E Television). The "Human Interaction Laboratory" at the University of California, San Francisco, has identified him as a "Truth Wizard." The "Wizard Project" (conducted by the late Dr. Maureen O'Sullivan) is researching people who are excellent at detecting deception and reading emotion. He is in the top 2% of people who are accurate in telling whether others are truthful. He has been profiled in the New Yorker Magazine (August, 2002), the Smithsonian Magazine (January, 2004) and other publications. Sergeant Harms retired from the Los Angeles Sheriff's Department on January 30, 2012.

Dr. Hugues F. Hervé is a Registered Psychologist in British Columbia, Canada, who specializes in forensic and medical-legal assessments. A former psychologist for the Correctional Service of Canada and the Forensic Psychiatric Services Commission, he is currently a Partner and Director of Consulting Services for The Forensic Alliance. Committed to the investigation, application, and dissemination of sound clinical-forensic practice, he is actively involved in providing consulting, training, and research services to various professionals groups and organizations on such topics as effective interviewing, evaluating truthfulness, malingering assessments, risk assessments, eyewitness memory, and psychopathology.

Dr. Cheryl Hiscock-Anisman is a Professor in the Department of Psychology at National University in La Jolla, CA. She began work in the area of Forensic Psychology with the study of malingering. This research helped in bringing the two-alternative, forced-choice paradigm into the mainstream of psychological

assessment. As a result, she became interested in the detection of deception in general. In 1993, Cheryl participated in a training workshop provided by Dr. John Yuille in investigative interviewing and SVA/CBCA. She then established an interviewing and statement analysis lab, largely with materials provided by Dr. Yuille. He provided laboratory manuals, training materials, and a wealth of theoretical and practical information. Without enthusiastic support, the research that followed could not have happened. She first met her coauthor, Dr. Kevin Colwell, as an Undergraduate Research Assistant working on this CBCA study. Unfortunately, CBCA did not work very well with adult inmates who witnessed a staged theft. However, this experience led to the study of interviewing techniques that enhance honest recall while making deception more difficult. Dr. Hiscock-Anisman was Chair of Kevin's Master's Thesis (1997) and Doctoral Dissertation (2002). Both of these projects compared the relative effects of mnemonics and two-alternative, forced-choice questions detecting deception. She has worked to synthesize the ACID system, along with Kevin. This has naturally led into the training of professionals in the process of investigative interviewing and detecting deception, and also the study of these trainings. These studies have also provided a chance to gain insight into the subjective strategies of impression management and deception that are used during an investigative interview. She hopes to continue studying ACID and deception across cultures, and to study manipulation of information in the media.

Dr. Drew A. Leins is currently a Research Psychologist for Applied Research Associates, Inc. He holds graduate degrees from Northeastern University and Florida International University. He has worked in multiple domains of psychology, including vocational rehabilitation, forensic counseling, geriatric cognition, and psychology-law. Drew's general research interests are in social cognition and include exploring the roles of social dynamics and memory in investigative interviewing. One of his specific interests is in developing methods for protecting innocent suspects from incriminating themselves during interrogations—by enhancing their ability to recall and report accurate alibis—while also improving interviewers' ability to detect deception. In part to that end, he is currently engaged in field testing methods of human intelligence gathering and detecting deception in military contexts. Drew would like to thank Dr. John Yuille for conducting seminal work in so many interesting and important areas of applied psychology.

Dr. Christin M. Ogle is a postdoctoral associate at the Center for the Study of Aging and Human Development at Duke University, where she is currently funded by a National Institutes of Health research training grant. Christin earned her B.A. in Psychology from Reed College in Portland, Oregon. While working under the mentorship of Daniel Reisberg at Reed, Christin first developed an interest in the fallibility of eyewitness memory and later completed an undergraduate thesis concerning eyewitness identification procedures. She went on to receive her doctorate from the University of California, Davis, where she conducted several lines of research on topics related to psychology and the law under the direction of Dr. Gail S. Goodman. Christin's current program of research investigates the impact

of trauma exposure on autobiographical memory and psychological health from a lifespan development perspective.

The late Dr. Maureen O'Sullivan was Professor Emeritus at the University of San Francisco. Dr. O'Sullivan completed her undergraduate degree at Fordham University in 1960, and her Masters and Ph.D. at the University of Southern California in 1963 and 1965, respectively. Dr. O'Sullivan spent much of her career researching social-emotional intelligence—the ability to manage, recognize, communicate, detect, and decipher emotions in others. In particular, Dr. O'Sullivan worked for many years on aspects of facial expressions of emotion in honest and deceptive situations, completing a multiyear project on individual differences among highly accurate human lie detectors. In addition to her research on social-emotional intelligence, lie detection, and facial expression recognition, Dr. O'Sullivan studied cross-cultural differences in romantic love. Much of her research over the last few years before her death focused on the Truth Wizard Project, as discussed in her contribution to the present volume. During her illustrious career, in addition to being an active researcher, Dr. O'Sullivan also served as a consultant to many national and international law enforcement groups, including the FBI, CIA, TSA, and Scotland Yard.

Dr. Pedro M. Paz-Alonso (BA '98; MA '01; PhD '04; U Basque Country, Spain) examined misinformation effects and memory accuracy for emotional events in children and adult eyewitnesses in his doctoral dissertation. During his postdoctoral positions, at Dr. Gail S. Goodman's Developmental Research Center at the University of California (UC) Davis and at Silvia A. Bunge's Development and Cognitive Control lab at the Helen Wills Neuroscience Institute at UC Berkeley, he investigated neurodevelopmental changes over childhood in true and false memories and intentional retrieval inhibition processes using MRI. Currently, he is a Research Scientist at the Basque Center on Cognition, Brain and Language (BCBL) where he conducts developmental cognitive neuroscience studies on higher cognitive functions and language. Professor Yuille's research greatly inspired Dr. Paz-Alonso's doctoral dissertation. Dr. John Yuille's landmark case study of adult eyewitness memory from a tragic shooting showed that, in contrast to the results from many lab studies, witnesses' memories were highly accurate and resistant to false information, highlighting the importance of using field research to evaluate the external validity of laboratory experiments. In dedication to Professor Yuille's work, Paz-Alonso, Ogle, and Goodman's chapter in this volume reviews "scientific case studies" of the accuracy of children's reports of sexual abuse. The research described in this review was inspired to a great extent by Professor Yuille's groundbreaking and innovative research.

Dr. Stephen Porter received his Ph.D. in forensic psychology under Dr. John Yuille's supervision at UBC. John and Steve ultimately became close friends and colleagues, and complemented their scholarly work together with equally important pursuits, such as fly-fishing. He currently is an academic and consultant in the area of psychology and law. After working as a prison psychologist, Steve spent a decade

as a professor at Dalhousie University. In 2009, he transferred to UBC-Okanagan where he assumed a position as a professor of psychology and the Co-Director of the Centre for the Advancement of Psychological Science & Law (CAPSL). Steve has published numerous scholarly articles on psychopathy and violent behavior, deception detection, and forensic aspects of memory with funding from the Social Sciences and Humanities Research Council of Canada (SSHRC) and the Natural Sciences and Engineering Research Council of Canada (NSERC). As a registered forensic psychologist in British Columbia, Steve has been consulted by Canadian courts and has been qualified as an expert witness in various areas, including “dangerousness and risk for violence” and “memory and the factors involved in credibility assessments.” He has been consulted by police in serious crime investigations and provides training to law enforcement, mental health professional groups, government agencies, journalists, trial judges, and other adjudicators. He hails from Deer Lake, Newfoundland.

Dr. Heather L. Price is an Associate Professor at the University of Regina. After completing her undergraduate degree at the University of Victoria, she entered Simon Fraser University’s Psychology and Law program where she finished her Master’s and Ph.D. She then undertook concurrent postdoctoral fellowships at the University of North Carolina at Chapel Hill and Wilfrid Laurier University before accepting her current position at the University of Regina in 2007. Heather’s primary research interests relate to child victims and witnesses, but she studies the many ways in which memory is related to the justice system. One of her first practical experiences as a graduate student was taking a Step-Wise Interviewing course through Dr. Yuille at UBC. The course provided the introduction to several years of work investigating how investigators question young witnesses.

Domenica Schraml (formerly Schwind) received her Diploma in Psychology from Konstanz University, Germany. Her studies and practicums were focused on the topic of credibility assessments. Since 2007, she has been part of the Gesellschaft für Wissenschaftliche Gerichts- und Rechtspsychologie (GWG) in Munich, Germany, and has provided credibility assessments for prosecutions, criminal courts, as well as in the context of family law and compensation claims. She is currently receiving additional training in various fields of forensic psychology in the Berufsverband Deutscher Psychologinnen und Psychologen (BDP).

Gerald T.G. Seniuk is a retired Canadian judge who collaborated with Dr. Yuille on a judicial research project. Judge Seniuk was a judge of the Provincial Court of Saskatchewan for 30 years, the last seven as Chief Judge of the court, before retiring in 2007. In 1982, he initiated a judicial research project into the fact-finding aspect of judicial reasoning and legal methodologies. In about 1989, Dr. Yuille was requested to advise the project on aspects of forensic and cognitive psychology that were relevant to judicial fact determination. Dr. Yuille became a close collaborator with Judge Seniuk. Together they wrote and published articles on the topic of decision-making. Dr. Yuille took part in many of the project’s Credit Model of Analysis

Workshops presented to judges in and outside of Canada. In retirement, Judge Seniuk has continued developing aspects of the research project, most currently in collaboration with experts in fuzzy logic and fuzzy neural networks.

Dr. Leanne ten Brinke received her Ph.D. from the University of British Columbia (UBC) in 2012 under the supervision of Dr. Stephen Porter, examining the behavioral consequences of emotional, high-stakes deception. Prior to studying at UBC, she completed her Bachelor of Science with Honours in Psychology, and a Certificate in Forensic Psychology, at Dalhousie University in 2007. She was awarded the University Medal upon graduation from this program, and has been funded by the Social Sciences and Humanities Research Council of Canada (SSHRC) throughout her graduate career. As a Ph.D. student, she has conducted research at the London Business School, and quickly is establishing herself as an international and cross-disciplinary psychological scientist. She recently received a SSHRC Postdoctoral Fellowship to pursue further research at the Haas School of Business at UC Berkeley. Leanne has over twenty published articles in leading academic journals in the areas of deception, interpersonal intuition, human decision-making, and criminal psychopathy, several of which have attracted national and international media attention. She was born and raised in Antigonish, Nova Scotia.

Dr. Marguerite Ternes (see About the Editors)

Dr. Aldert Vrij is a Professor of Applied Social Psychology. His main research interests lie in deception, and he examines (1) nonverbal and verbal correlates of deception and (2) people's ability to detect deceit. He received grants from the British Academy, Economic and Social Research Council, Engineering and Physical Sciences Research Council, Federal Bureau of Investigation, Innovation Group, Leverhulme Trust, Nuffield Foundation, and Dutch, British and American Governments, totaling >£2,200,000. His research has a strongly applied quality, and he has been working closely with practitioners (police, security services, and insurers) for the last 20 years, both in terms of conducting collaborative research and in disseminating the research findings via seminars and workshops. He has published almost 400 articles and seven books on the above topics, including his 2008 book, *Detecting lies and deceit: Pitfalls and opportunities* (published by Wiley), a comprehensive overview of research into nonverbal, verbal and physiological deception and lie detection.

Dr. Dave Walsh obtained his Ph.D. from the University of Leicester in 2011. His thesis concerned an examination of the practices of investigators from nonpolice agencies in the UK when interviewing their suspects. Dave is a senior lecturer in the School of Law and Criminology at the University of Derby in the UK. Prior to his current role, he was involved for over 20 years as an investigations professional in several government departments in the UK, either as an investigator or later in his career as a senior investigations manager. He has published several articles in peer-reviewed journals and presented at many international conferences on the subject of interviewing suspects. He is editor of the journal, *Investigative Interviewing*;

Research and Practice, being a founder member of the International Investigative Interviewing Research Group. Dr. John Yuille's work has inspired and influenced his work, both as an investigations professional, looking towards researchers to provide solutions to problems that confront investigations practitioners in the field, and also as a researcher. In particular, John Yuille's research, which has created frameworks for the interviewing of children in order to gain reliable and fulsome information, has been influential. It is a privilege to him, therefore to have been asked to contribute to this book in John Yuille's much deserved honor.

Dr. Michael Woodworth is an Associate Professor at UBC-Okanagan. His primary areas of research include psychopathy, criminal behavior, and deception detection. Along with his colleagues, Dr. Stephen Porter, and Dr. Zach Walsh, Dr. Woodworth was awarded Canadian Foundation for Innovation (CFI) funding to create the "Centre for the Advancement of Psychological Science and Law (CAPSL)." This facility is a state-of-the-art research center in which faculty and students conduct cutting-edge studies with relevance to the legal system. The center was officially opened in a ceremony on February, 2012. Dr. Woodworth will also be the first Director of the created Clinical Psychology Graduate Program from January 2013 to January 2015. He was recently awarded a 3-year SSHRC Insight Grant (2012–2015) to study language and psychopathy. He regularly presents at national and international psychology conferences, consults with law enforcement agencies such as the RCMP and the FBI, and serves as an expert witness for the courts. Dr. Woodworth has over 25 publications in top tier journals such as *Law and Human Behavior*, *Criminal Justice and Behavior*, and *Journal of Abnormal Psychology*. Dr. Woodworth was the recipient of the UBC Teaching Excellence and Innovation Award (presented at convocation in June, 2010). In the last 7 years, Dr. Woodworth has supervised over 25 undergraduate and graduate student thesis projects and directed studies. Finally, Dr. Woodworth is a Registered Psychologist who currently provides clinical services to citizens primarily residing in the Okanagan.

Retired Sergeant John Yarbrough was a sworn peace officer for nearly 30 years, specializing in homicide investigations for 16 years. He served as his department's criminal profiler for 8 years, and was certified in criminal investigative profiling and crime scene analysis by the Federal Bureau of Investigation (FBI) and the International Criminal Investigative Analysis Fellowship (ICIAF) in 1995. Sergeant Yarbrough conducted research on homicides of the elderly and was an advisor for a Los Angeles County Sheriff's Department training film entitled *Predators of the Elderly*. He also conducted research on "police-assisted suicide" and was a coauthor of a published article entitled "Suicide By Cop" (*Annals of Emergency Medicine*, December 1998). Also in 1998, Sergeant Yarbrough served on a technical working group that developed and published *Crime Scene Investigation: A Guide for Law Enforcement* for the National Institute of Justice (NIJ) in Washington, D.C. He coauthored "Crime Specific Consultation: A Law Enforcement and Psychology Partnership", an article published by the California Psychological Association (June, 2000) on personality, evaluating truthfulness, and interviewing. Sergeant

Yarbrough remains active in the research community by engaging in collaborative investigations on applied topics within the areas of credibility, eyewitness memory, and criminal conduct, with special emphasis being placed on the mediating/moderating roles of mental illness and personality (including psychopathy).

Dr. John C. Yuille, Professor Emeritus, University of British Columbia, is a Registered Psychologist with a private forensic practice. Dr. Yuille has conducted research with children and adults for over 40 years. His research has included the areas of human memory, interviewing, credibility assessment, and psychopathy. He regularly provides training to law enforcement, lawyers, child protection workers, and judges on interviewing and credibility assessment. He has served as an expert witness in criminal, family, and civil court for over 30 years. He is the Chief Executive Officer for The Forensic Alliance.