

TINA YOUNG

P.J. ORTMEIER

CRIME SCENE INVESTIGATION

The Forensic Technician's Field Manual

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Crime Scene Investigation

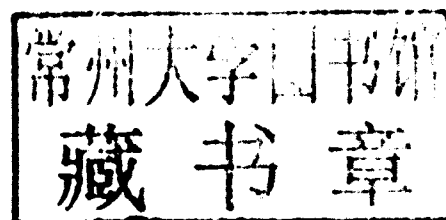
The Forensic Technician's Field Manual

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To Graham, Liam, and Christine

Preface

The field of forensic science expanded dramatically over the past few decades. Technological advancements such as DNA profiling, the Automated Fingerprint Identification System (AFIS), and numerous other scientific breakthroughs greatly enhanced humankind's ability to investigate and solve crimes through applied science.

Forensic science has also been popularized in recent years by the media, movies, and numerous television programs such as *Forensic Files*, *NCIS*, and *CSI*. The so-called *CSI effect* generates tremendous interest among members of the public and academe. Although fictional accounts of the forensic science operative may not depict reality, those who view the TV programs often identify themselves as amateur sleuths. As a result, many trial jurors expect miraculous results from the application of science to criminal investigations. The interest in forensic science has also led many college students to select a career in the discipline. Publishers responded with forensic science-related textbooks and other learning materials.

CRIME SCENE INVESTIGATION: The Forensic Technician's Field Manual was written in response to the need for a text that addresses the tasks performed by the person who identifies, photographs, documents, collects, preserves, and transports evidence at and from a crime scene. The book is organized as a step-by-step guide for the college student as well as the sworn peace officer or civilian who functions as a crime scene or forensic (evidence) technician. As such, the book is appropriate for basic courses in forensic technology and crime scene investigation and as a field manual or training aid for practitioners. Numerous photographs and diagrams illustrate the techniques discussed.

The protocols and processes suggested are consistent with guidelines established by the American Society of Crime Laboratory Directors (ASCLD) and the International Association for Identification (IAI). Therefore, policies and procedures in a reader's jurisdiction may differ slightly.

Each chapter begins with a set of learning objectives and ends with a summary, a list of key terms, discussion and review questions, a case study, practical lab exercises designed to reinforce skill development, and web-based resources. Included at the rear of the book is a glossary as well as an appendix that lists supplies and equipment needed for a basic crime scene processing kit. The inside front and back covers present measurement conversions and equivalents and trigonometric tables (sine and tangent functions).

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- San Diego, California, Police Department Crime Laboratory personnel
- El Cajon, California, Police Department Crime Laboratory personnel
- San Diego County, California, District Attorney's Office
- Dr. Skip Sperber, and the San Diego County Medical Examiner's Office
- Marykay Hunt, certified latent print examiner, Missouri State Highway Patrol and students of the Grossmont College, California, Administration of Justice Department

INSTRUCTOR SUPPLEMENTS

A CourseSmart e-book version of the text (0-13-508975-1) is available and the authors have provided an Instructor's Manual with Test Bank (0-13-512706-8) and PowerPoints (0-13-512707-6) to accompany the text. To access supplementary materials online, instructors need to request an instructor access code. Go to www.pearsonhighered.com/irc, where you can register for an instructor access code. Within 48 hours after registering, you will receive a confirming e-mail, including an instructor access code. Once you have received your code, go to the site and log on for full instructions on downloading the materials you wish to use.

ABOUT THE AUTHORS

Tina Young

Tina Young attended The Ohio State University and later graduated cum laude with a bachelor of science in criminal justice and a master of forensic sciences from National University in San Diego, California. She also completed hundreds of hours of forensic science and law enforcement-related training.

In July 2007, Professor Young became a certified bloodstain pattern examiner through the International Association for Identification. She was previously employed as a crime scene specialist with the National City, California, Police Department and an evidence technician with the Chula Vista, California, Police Department.

Currently, Tina Young is an assistant professor in the Administration of Justice Department at Grossmont College in El Cajon, California. Additionally, she provides forensic case consultation and training to public agencies and private entities.

Professor Young published "A Photographic Comparison of Luminol, Fluorescein, and Bluestar" in the November/December 2006 issue of the *Journal of Forensic Identification*. She is a member of the International Association for Identification, the International Association of Bloodstain Pattern Analysts; the California State Division of the International Association for Identification; the Southern California Association of Fingerprint Officers; the California Association of Administration of Justice Educators; and is a member of, and Grossmont College chapter advisor for, the American Criminal Justice Association/Lambda Alpha Epsilon.

Professor Young volunteers to provide forensic science training to disadvantaged youth, children in the foster care system, K-12 math and science teachers, police patrol officers, and at national conferences. In July 2008, she was awarded the *Partner in Law Enforcement Award* by the National City Police Department for her forensic science-related volunteer work.

P. J. Ortmeier

P. J. Ortmeier holds bachelor's and master's degrees in criminal justice and a Ph.D. in educational leadership with an emphasis in public safety training and development. He is a U.S. Army veteran and a former police officer. Dr. Ortmeier developed and implemented numerous courses and degree programs in criminal justice and public safety. As a member of a California Commission on Peace Officer Standards and Training (POST) steering committee, Dr. Ortmeier participated in the integration of leadership, ethics, and community-policing concepts and skill development into the basic academy for entry-level California peace officers.

Currently, Dr. Ortmeier is professor and chair of the 1500-student Administration of Justice Department at Grossmont College in the San Diego suburb of El Cajon, California. He also holds a teaching position at Webster University in San Diego.

Dr. Ortmeier is the author of *Public Safety and Security Administration, Policing the Community: A Guide for Patrol Operations, Introduction to Law Enforcement and Criminal Justice*, and *Introduction to Security: Operations and Management*, as well as numerous articles appearing in journals such as *The Police Chief*, *The Law Enforcement Executive Forum*, *California Security*, *Police and Security News*, and *Security Management*. With Edwin Meese III, former attorney general of the United States, Dr. Ortmeier co-authored *Leadership, Ethics, and Policing: Challenges for the 21st Century*. His writing focuses on professional career education, leadership, ethics, management, police field services, forensic technology, and competency development for public safety personnel.

Dr. Ortmeier is a member of the Academy of Criminal Justice Sciences, the American Society of Criminology, the International Association of Chiefs of Police, the Public Safety Leadership Development Consortium, the California Association of Administration of Justice Educators, and the American Society for Industrial Security. His current interests include homeland defense, forensic science, and the development of leadership skills and career education pathways for law enforcement and other public safety professionals.

The authors encourage and solicit comments regarding this book as well as suggestions for future editions. They are also available to provide technical assistance to anyone who adopts this text for a course. The authors may be contacted directly at:

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