DESCRIPTION

Wildlife Forensics: Methods and Applications provides an accessible and practical approach to the key areas involved in this developing subject. The book contains case studies throughout the text that take the reader from the field, to the lab analysis to the court room, giving a complete insight into the path of forensic evidence and demonstrating how current techniques can be applied to wildlife forensics.

The book contains approaches that wildlife forensic investigators and laboratory technicians can employ in investigations and provides the direction and practical advice required by legal and police professionals seeking to gain the evidence needed to prosecute wildlife crimes.

The book will bring together in one text various aspects of wildlife forensics, including statistics, toxicology, pathology, entomology, morphological identification, and DNA analysis.

This book will be an invaluable reference and will provide investigators, laboratory technicians and students in forensic Science/conservation biology classes with practical guidance and best methods for criminal investigations applied to wildlife crime.

- Includes **practical techniques** that wildlife forensic investigators and laboratory technicians can employ in investigations.
- Includes **case studies** to illustrate various key methods and applications.
- Brings together diverse areas of forensic science and demonstrates their application specifically to the field of wildlife crime.
• Contains **methodology boxes** to lead readers through the processes of individual techniques.

• Takes an **applied approach** to the subject to appeal to both students of the subject and practitioners in the field.

• Includes a broad introduction to what is meant by 'wildlife crime', how to approach a crime scene and collect evidence and includes chapters dedicated to the key techniques utilized in wildlife investigations.

• Includes chapters on wildlife forensic pathology; zooanthropological techniques; biological trace evidence analysis; the importance of bitemark evidence; plant and wildlife forensics; best practices and law enforcement.

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**ABOUT THE AUTHOR**

**Dr. Jane Huffman**, Ph.D. is the director of the Northeast Wildlife DNA Laboratory at East Stroudsburg University, where her work focuses on the application of genetic methods to wildlife law enforcement and conservation management. She runs wildlife DNA forensic training courses for conservation officers from New Jersey and Pennsylvania. She, along with her students, has undertaken a wide range of applied research projects including the development of DNA profiling systems for game species in PA and NJ and microscopic hair characterization. The laboratory provides species identification tests for illegally sold wild meat. She provides forensic analysis and expert witness testimony in PA wildlife crime prosecutions.

Dr. Huffman is also the graduate student coordinator for the Department of Biological Sciences at East Stroudsburg University.

**Dr. John R. Wallace**, Ph.D., D-ABFE, F-AAFS, is one of 15 board-certified forensic entomologists and a diplomate of the American Board of Forensic Entomology. Dr. Wallace is a Professor of Biology and focuses on teaching courses in Entomology, Aquatic Biology, Aquatic Entomology, Forensic Entomology, Forensic Science, and Ecology and Evolution. His research interests cover topics such as mosquito and disease ecology as well as mosquito and blackfly surveillance, and the role of aquatic organisms such as insects, algae and crayfish on decomposition within forensic science.

As a forensic entomologist, Dr. Wallace has participated in criminal investigations all over the country since 1995. He has taught forensic entomology courses at the University level and workshops at various universities to law enforcement throughout the United States, published more than 45 articles or book chapters in National/International journals. He is a Fellow of the American Academy of Forensic Science and an active member since 2002. Dr. Wallace is a co-founder and past President of the North American Forensic Entomology Association (NAFEA) in 2005 as well as the editor-elect for the NAFEA newsletter.
SERIES

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