The Organization of Scientific Area Committees (OSAC) for Forensic Science Registry is a repository of selected published and proposed standards for forensic science. These documents contain minimum requirements, best practices, standard protocols, terminology, or other information to promote valid, reliable, and reproducible forensic results.

The standards on the OSAC Registry have undergone a technical and quality review process that actively encourages feedback from forensic science practitioners, research scientists, human factors experts, statisticians, and legal experts, and the public.

The following 158 standards were effective on the OSAC Registry at the end of fiscal year 2023 (ending September 30, 2023).

**ANTHROPOLOGY**

**Published Standard (1):**

**BIOLOGY/DNA**

**Published Standards (13):**

OSAC Proposed Standards (5):
• OSAC 2020-N-0007, Best Practice Recommendations for the Management and Use of Quality Assurance DNA Elimination Databases in Forensic DNA Analysis | added April 6, 2021
• OSAC 2020-S-0004, Standard for Interpreting, Comparing and Reporting DNA Test Results Associated with Failed Controls and Contamination Events | added June 1, 2021
• OSAC 2021-S-0021, Forensic Autosomal STR DNA Statistical Analyses – General Protocol, Protocol Verification, and Case Record requirements | added January 5, 2023
• OSAC 2021-S-0028, Standard for Use of Serological Testing Methods Associated with Forensic Investigations | added November 1, 2022
• OSAC 2021-S-0029, Standard for Familial DNA Searching | added January 5, 2023

BLOODSTAIN PATTERN ANALYSIS

Published Standards (2):
• ANSI/ASB Standard 032, Standards for a Bloodstain Pattern Analyst’s Training Program. 2020. 1st Ed. | added January 5, 2023
• ASB Technical Report 033, Terms and Definitions in Bloodstain Pattern Analysis. 2017, 1st Ed. | added June 3, 2020

OSAC Proposed Standards (4):
• OSAC 2021-N-0039, Standard for a Mentorship Program in Bloodstain Pattern Analysis | added April 5, 2022
• OSAC 2021-S-0011, Standards for the Technical Review of Bloodstain Pattern Analysis Reporting | added April 4, 2023
• OSAC 2022-N-0010, Standards for Development of an Accredited Bloodstain Pattern Analyst Certification Program | added December 6, 2022
• OSAC 2022-S-0030, Standard Methodology in Bloodstain Pattern Analysis | added July 5, 2023

CRIME SCENE INVESTIGATION & RECONSTRUCTION

OSAC Proposed Standards (5):
• OSAC 2021-N-0015, Guiding Principles for Scene Investigation and Reconstruction | added September 7, 2021
• OSAC 2021-N-0016, Standard for Initial Response at Scenes by Law Enforcement | added September 7, 2021
• OSAC 2021-N-0019, Standard Practice for the Documentation and Processing of Shooting Scenes | added November 1, 2022
• OSAC 2022-N-0025, Standard for Scene Response: Initial Response by Scene Investigators | added October 4, 2022
• OSAC 2022-N-0035, Standard for On-Scene Collection and Preservation of Document Evidence | added January 5, 2023
DIGITAL EVIDENCE

Published Standards (5):
- ANSI/ASTM E2916-19e1 Standard Terminology for Digital and Multimedia Evidence Examination | added July 7, 2020
  - NOTE: This document drafted in collaboration with OSAC's Digital Evidence, Facial Identification, and VITAL Subcommittees.
- SWGDE 18-NOV-001-1.0 Minimum Requirements for Testing Tools used in Digital and Multimedia Forensics | added June 6, 2023
- SWGDE 22-F-002-1.0 Best Practices for Chromebook Acquisition and Analysis | added June 6, 2023

DOGS & SENSORS

Published Standards (4):

FACIAL IDENTIFICATION

Published Standards (4):
- ANSI/ASTM E2916-19e1 Standard Terminology for Digital and Multimedia Evidence Examination | added July 7, 2020
  - NOTE: This document drafted in collaboration with OSAC's Digital Evidence, Facial Identification, and VITAL Subcommittees.
- ANSI/ASTM E3148-18 Standard Guide for Postmortem Facial Image Capture | added October 1, 2019

OSAC Proposed Standards (5):
- OSAC 2021-N-0025, Standard Guide for Printing Method Effects on Facial Comparisons | added May 2, 2023
- OSAC 2020-S-0002, Physical Stability of Facial Features of Adults (added June 1, 2021).
  - NOTE: This is an annex to the published standard, ASTM E3149-18 Standard Guide for Facial Image Comparison Feature List for Morphological Analysis, listed above.
• OSAC 2022-S-0001, Standard Guide for Image Comparison Opinions | added June 6, 2023
  ○ NOTE: This document drafted in collaboration with OSAC’s VITAL Subcommittee
• OSAC 2022-S-0007, Standard Guide for Facial Comparison: Overview and Methodology Guidelines | added December 6, 2022

FIRE & EXPLOSION INVESTIGATION

Published Standards (2):
• NFPA 921:2021 Guide for Fire and Explosion Investigations | added September 6, 2022
• NFPA 1033:2022 Standard for Professional Qualifications for Fire Investigator | added September 6, 2022

FIRE DEBRIS & EXPLOSIVES

Published Standards (10):
• ANSI/ASTM E1388-17 Standard Practice for Static Headspace Sampling of Vapors from Fire Debris Samples | added December 1, 2020
• ANSI/ASTM E1412-19 Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Activated Charcoal | added December 1, 2020
• ANSI/ASTM E1413-19 Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Dynamic Headspace Concentration onto an Adsorbent Tube | added December 1, 2020
• ANSI/ASTM E2451-21 Standard Practice for Preserving Ignitable Liquids and Ignitable Liquid Residue Extracts from Fire Debris Samples | added April 5, 2022
• ANSI/ASTM E3189-19 Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Static Headspace Concentration onto an Adsorbent Tube | added December 1, 2020
• ANSI/ASTM E3196-21 Standard Terminology Relating to the Examination of Explosives | added July 5, 2022
• ANSI/ASTM E3197-20 Standard Terminology Relating to Examination of Fire Debris | added April 6, 2021
• ANSI/ASTM E3245-20e1 Standard Guide for Systematic Approach to the Extraction, Analysis, and Classification of Ignitable Liquids and Ignitable Liquid Residues in Fire Debris Samples | added May 4, 2021
• ANSI/ASTM E3253-21 Standard Practice for Establishing an Examination Scheme for Intact Explosives | added July 5, 2022
• ANSI/ASTM E3329-21 Standard Practice for Establishing an Examination Scheme for Explosive Residues | added July 5, 2022

OSAC Proposed Standards (1):
• OSAC 2022-S-0023, Standard Practice for the Forensic Analysis of Explosives by Polarized Light Microscopy | added July 5, 2023

FIREARMS & TOOLMARKS

Published Standards (7):
• ANSI/ASB Best Practice Recommendation 060, Guidelines for Barrel and Overall Length Measurements of Firearms. 2021. 1st Ed. | added May 2, 2023
• ANSI/ASB 062, Standard for Topography Comparison Software for Toolmark Analysis. 2021. 1st Ed. | added August 2, 2022
• ANSI/ASB Best Practice Recommendation 068, *Safe Handling of Firearms and Ammunition*. 2020. 1st Ed. | added April 6, 2021

**OSAC Proposed Standards (1):**
• OSAC 2021-N-0012, *Requirements and Recommendations for a Firearm and Toolmark Examiner Training Program* | added October 4, 2022

**FOOTWEAR & TIRE**

**Published Standards (5):**
• ANSI/ASB Best Practice Recommendation 050, *Best Practice Recommendation for Photographic Documentation of Footwear and Tire Impression Evidence*. 2021. 1st Ed. (Errata 1, 2022) | added September 5, 2023
• ANSI/ASB Best Practice Recommendation 126, *Best Practice Recommendation for Casting Footwear and Tire Impression Evidence at the Crime Scene*. 2020. 1st Ed. (Errata 1, 2022) | added April 4, 2023

**FORENSIC DOCUMENT EXAMINATION**

**Published Standards (2):**

**FRICTION RIDGE**

**Published Standards (1):**
• ANSI/ASTM E3235-21 *Standard Practice for Latent Print Evidence Imaging Resolution* | added June 7, 2022
  o NOTE: This document was drafted by OSAC’s Video/Imaging Technology & Analysis Subcommittee.

**OSAC Proposed Standards (4):**
• OSAC 2021-N-0020, *Best Practice Recommendations for Limited Examinations* | added April 5, 2022
• OSAC 2022-N-0033, *Standard for Processing Evidence for the Detection of Friction Ridge Impressions* | added September 6, 2022
• OSAC 2022-S-0012, *Standard for Proficiency Testing in Friction Ridge Examination* | added June 7, 2022
• OSAC 2022-S-0038, *Standard for Feature Selection in Friction Ridge Examination* | added September 5, 2023
GUNSHOT RESIDUE

Published Standards (2):

OSAC Proposed Standards (3):
- OSAC 2022-S-0002, Standard Practice for the Identification of Compounds Related to Organic Gunshot Residue (oGSR) by Gas Chromatography-Mass Spectrometry (GC-MS) | added January 5, 2023
- OSAC 2022-S-0003, Standard Practice for the Identification of Compounds Related to Organic Gunshot Residue (oGSR) by Liquid Chromatography-Mass Spectrometry (LC-MS) | added January 5, 2023

MEDICOLEGAL DEATH INVESTIGATION

Published Standards (7):
- ANSI/ASB Best Practice Recommendation 008, Mass Fatality Scene Processing: Best Practice Recommendations for the Medicolegal Authority. 2021. 1st Ed. | added April 5, 2022
- ANSI/ASB Best Practice Recommendation 009, Best Practice Recommendations for the Examination of Human Remains by Forensic Pathologists in the Disaster Victim Identification Context. 2019. 1st Ed. | added September 7, 2021
- ANSI/ASB Best Practice Recommendation 010, Forensic Anthropology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority. 2018. 1st Ed. | added September 5, 2019
- ANSI/ASB Standard 125, Organizational and Foundational Standard for Medicolegal Death Investigation, 2021. 1st Ed. | added October 4, 2022

OSAC Proposed Standards (7):
- OSAC 2021-N-0007, Media Communications Following a Mass Fatality Incident: Best Practice Recommendations for the Medicolegal Authority | added August 3, 2021
- OSAC 2021-N-0008, Victim Accounting: Best Practice Recommendations for Medicolegal Authorities in Mass Fatality Management | added August 3, 2021
- OSAC 2022-N-0020, Standard for Mass Fatality Incident Management | added January 5, 2023
- OSAC 2022-N-0026, Medicolegal Death Investigation: Terms and Definitions | added September 6, 2022
- OSAC 2022-N-0027, Medicolegal Death Investigation Response to Death Locations and Incident Scenes: Best Practice Recommendations | added November 1, 2022
• OSAC 2023-N-0004, *Standard for Interactions Between Medical Examiner, Coroner and All Other Medicolegal Death Investigation Agencies and Organ and Tissue Procurement Organizations and Eye Banks* | added March 7, 2023
• OSAC 2023-N-0022, *Best Practice Recommendation for Communicating with Next of Kin during Medicolegal Death Investigations* | added September 5, 2023

**ODONTOLOGY**

**Published Standards (3):**
- ANSI/ADA 1058-2010D *Forensic Dental Data Set* | added February 14, 2019
- ADA 1077-2020 *Human Age Assessment by Dental Analysis* | added November 2, 2021
- ADA 1088-2017D *Human Identification by Comparative Dental Analysis* | added March 7, 2019

**OSAC Proposed Standards (1):**
- OSAC 2021-N-0030, *Terminology for a Suspected Pattern of Dental Origin* | added April 5, 2022

**SEIZED DRUGS**

**Published Standards (7):**
- ANSI/ASTM E2125-19 *Standard Practice for Microcrystal Testing in Forensic Analysis for Phencyclidine and its Analogues* | added July 6, 2021
- ANSI/ASTM E2329-17 *Standard Practice for Identification of Seized Drugs* | added August 7, 2018
- ANSI/ASTM E2548-16 *Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis* | added June 1, 2021

**OSAC Proposed Standards (1):**

**SPEAKER RECOGNITION**

**Published Standards (1):**
- AES 76-2022, AES Standards for Audio Forensics - *Speech Collection Guidelines for Speaker Recognition: Interviewing at a Temporary Location* | added May 2, 2023
TOXICOLOGY

Published Standards (9):

- ANSI/ASB Best Practice Recommendation 037, *Guidelines for Opinions and Testimony in Forensic Toxicology*. 2019. 1st Ed. | added November 5, 2019

OSAC Proposed Standards (1):

- OSAC 2020-S-0003, *Guidelines for Performing Alcohol Calculations in Forensic Toxicology* | added May 3, 2022

TRACE EVIDENCE

Published Standards (16):

- ANSI/ASTM E1967-19 *Standard Test Method for the Automated Determination of Refractive Index of Glass Samples Using the Oil Immersion Method and a Phase Contrast Microscope* | added July 7, 2020
- ANSI/ASTM E2808-21a *Standard Guide for Microspectrophotometry in Forensic Paint Analysis* | added February 1, 2022
- ANSI/ASTM E3233-20 *Standard Practice for Forensic Tape Analysis Training Program* | added November 3, 2020
• ANSI/ASTM E3260-21 Standard Guide for Forensic Examination and Comparison of Pressure Sensitive Tapes | added October 5, 2021
• ANSI/ASTM E3316-22 Standard Guide for Forensic Examination of Hair by Microscopy | added April 4, 2023

OSAC Proposed Standards (4):
• OSAC 2022-N-0018, Standard Practice for a Forensic Fiber Training Program | added January 5, 2023
• OSAC 2022-S-0015, Standard Guide for Forensic Physical Fit Examination | added November 1, 2022
• OSAC 2022-S-0017, Standard Guide for Microspectrophotometry in Forensic Fiber Analysis | added April 4, 2023
• OSAC 2022-S-0019, Standard Guide for Forensic Examination of Fibers | added April 4, 2023

VIDEO/IMAGING TECHNOLOGY & ANALYSIS

Published Standards (2):
• ANSI/ASTM E2916-19e1 Standard Terminology for Digital and Multimedia Evidence Examination | added July 7, 2020
  ○ NOTE: This document drafted in collaboration with OSAC's Digital Evidence, Facial Identification, and VITAL Subcommittees.
• ANSI/ASTM E3235-21 Standard Practice for Latent Print Evidence Imaging Resolution | added June 7, 2022

OSAC Proposed Standards (6):
• OSAC 2021-S-0013, Standard Guide for Post Mortem Examination Photography | added March 1, 2022
• OSAC 2021-S-0027, Standard Guide for Laboratory Photography | added July 5, 2022
• OSAC 2021-S-0037, Standard Guide for Forensic Photogrammetry | added April 4, 2023
  ○ NOTE: This document drafted in collaboration with OSAC’s Facial Identification Subcommittee
• OSAC 2023-N-0001, Standard Practice for Training in the Areas of Video Analysis, Image Analysis and Photography | added July 5, 2023
• OSAC 2023-S-0006, Standard Guide for Photographing Scars, Marks, and Tattoos | added September 5, 2023

WILDLIFE FORENSICS

Published Standards (4):
• ANSI/ASB Standard 019, Wildlife Forensics General Standards. 2019. 1st Ed. | added March 2, 2021
• ANSI/ASB Standard 028, Wildlife Forensics Morphology Standards. 2019. 1st Ed. | effective June 3, 2020
**OSAC Proposed Standards (2):**
- OSAC 2021-N-0001, *Wildlife Forensics Method-Collection of Known DNA Samples from Domestic Mammals* | added April 6, 2021
- OSAC 2021-S-0006, *Standard for the Use of GenBank for Taxonomic Assignment of Wildlife* | added November 2, 2021

**INTERDISCIPLINARY**

**Published Standards (6):**
- ASTM E2917-19a *Standard Practice for Forensic Science Practitioner Training, Continuing Education, and Professional Development Programs* | added November 5, 2019
- ISO/IEC 17020:2012 *Conformity Assessment—Requirements for the Operation of Various Types of Bodies Performing Inspection* | added April 18, 2017 and reapproved June 7, 2022
- ISO 21043-2 Forensic Sciences - Part 2: *Recognition, recording, collecting transport and storage of items* | added December 3, 2019