



Priority Action Report

Footwear and Tire Track

Physics and Pattern SAC

G. Matt Johnson Chair

February 2017





Subcommittee Leadership

Position	Name	Organization	Term	Email
Chair	G. Matt Johnson	Orange County Sheriff's Dept.	2014-2019	gmj@occl.ocgov.com
Vice Chair	Rodney Schenck	Defense Forensic Science Center	2014-2018	Rodney.A.Schenck2.civ@mail.mil
Executive Secretary	Stephen Greene	US Customs and Border Protection	2014-2019	Stephen.D.Greene@cbp.dhs.gov



Subcommittee Members



#	Name	Organization	Term	Email
1	Bohne, Sarah	Colorado Springs Police Department	2014-2018	sarahebohne@gmail.com
2	Dumitra, Aurora	NYPD Police Laboratory	2014-2019	aurora.dumitra@yahoo.com
3	Gorn, Michael	Federal Bureau of Investigation	2014-2018	gornmichael@aol.com
4	Hamburg, Christopher	Oregon State Police	2014-2017	chris.hamburg@state.or.us
5	Hilderbrand, Dwane	Forensic ITC Services	2014-2017	Dwane@forensicitc.com
6	Homer, Cindy	Maine State Police Crime Laboratory	2014-2018	cindy.homer@gmail.com
7	Jagmin, Jeff	Washington State Patrol	2015-2019	jeff.jagmin@wsp.wa.gov
8	Kainuma, Alan	Honolulu Police Department	2014-2017	akainuma@honolulu.gov
9	Kanaris, David	Alaska Scientific Crime Detection Laboratory	2015-2018	david.kanaris@alaska.gov
10	Lane, Amanda	Virginia Department of Forensic Science	2014-2018	amanda.lane@dfs.virginia.gov
11	Lund, Steven	NIST	2015-2019	steven.lund@nist.gov
12	McVicker, Brian	Federal Bureau of Investigation	2014-2017	brianmcvicker@gmail.com
13	Mueller, Ron	Charlotte County Sheriff's Office	2015-2019	rmueller@cco.org
14	Snyder, Christine	Seminole County Sheriff's Office	2014-2017	csnyder@seminolesheriff.org
15	Speir Ph.D., Jacqueline	West Virginia University	2015-2019	Jacqueline.Speir@mail.wvu.edu
16	Valadez, Melissa	Department of Public Safety Crime Laboratory	2014-2017	melissa.valadez@dps.texas.gov



Affiliates

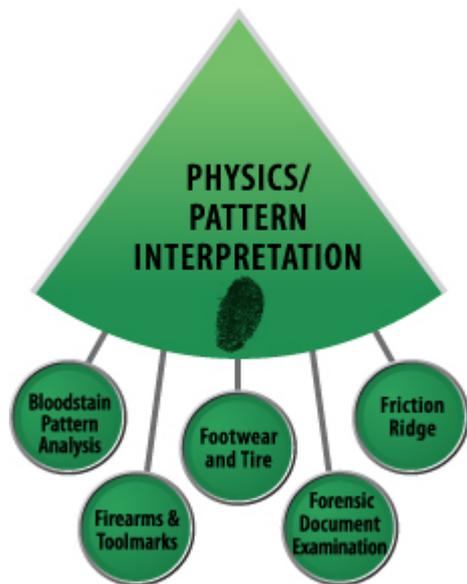


#	Name	Organization	Term	Email
1	Yamashita, Brian	Royal Canadian Mounted Police	2015-	brian.yamashita@rcmp-grc.gc.ca



Footwear and Tire

Detection, documentation, recovery, examination and comparison of footwear and tire evidence



Summary of Priority Projects

Priority	OSAC Process	Working Title of Document
1	SDO	Guideline for the Preparation of Test Impressions from Footwear and Tires
2	SDO	Forensic Documentation and Photography of Footwear and Tire Impressions at the Crime Scene
3	SDO	Terminology for Footwear and Tire Impressions
4	SDO	Chemical Enhancements of Footwear and Tire Impressions
5	SDO	Scope of Work and Minimum Qualifications and Training for Footwear and Tire Examiner



Standards/Guidelines Development Priority 1 Document

Document Title: Guideline for the Preparation of Test Impressions from Footwear and Tires

Scope: This document is targeted for forensic science professionals actively engaged in the discipline of footwear and tire track examination.

Objective/rationale: This document provides forensic footwear and tire impression examiners guidance in the preparation of two and three dimensional test impressions from footwear and tires

Task Group Name: Examination and Comparison Methods

Task Group Chair Name: Sarah Bohne

Task Group Chair Contact Info: fwt_examination-chair@workspace.forensicosac.org

Date of Last Task Group Meeting: July 2016



Standards/Guidelines Development Priority 1 Document

Key Components of Standard:

- This guideline will provide practicing examiners a best practices reference for making test impressions from footwear and tires.
- This guideline will provide more uniformity in the methods utilized in the creation of test impressions in the footwear and tire impression discipline.

Priority 1: Guideline for the Preparation of Test Impressions from Footwear and Tires

Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Review SWGTREAD terminology document. Created KAVI Project. Recommend guideline for SDO process.	SDO 100	Sarah Bohne	3/6/15
Subcommittee Vote of Approval.	SDO 200	Sarah Bohne	10/7/16
All SDO submission forms completed. Ready for SAC consideration.	SDO 300	Sarah Bohne	4/2017



Standards/Guidelines Development Priority 2 Document

Document Title: Forensic Documentation and Photography of Footwear and Tire Impressions at the Crime Scene

Scope: This standard is targeted for forensic science professionals actively engaged in the discipline of footwear and tire track examination.

Objective/rationale: This document provides footwear and tire track examiners with a list of guidelines and best practices widely used and generally accepted in the documentation and photography of Footwear and Tire Impressions at the Crime Scene.

Task Group Name: Detection and Collection Methods TG

Task Group Chair Name: Alan Kainuma

Task Group Chair Contact Information: fwt_collection-chair@workspace.forensicosac.org

Date of Last Task Group Meeting: July 2016

Standards/Guidelines Development Priority 2 Document

Key Components of Standard:

- This guideline will provide practicing examiners a best practices reference generally accepted in the documentation and photography of Footwear and Tire Impressions at the Crime Scene.
- This guideline will provide more uniformity in the methods utilized in the documentation and photography of Footwear and Tire Impressions at the Crime Scene.



Priority 2: Forensic Documentation and Photography of Footwear and Tire Impressions at the Crime Scene



Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Review equivalent SWGTREAD document. Created KAVI Project.	SDO 100	Alan Kainuma	3/6/15
Subcommittee Vote of Approval.	SDO 200	Alan Kainuma	4/2017



Standards/Guidelines Development Priority 3 Document

Document Title: Terminology for Footwear and Tire Impressions

Scope: This standard is targeted for forensic science professionals actively engaged in the discipline of footwear and tire track examination. It is not intended to define every term potentially applicable to forensic footwear and tire track examination, but define commonly used terms in the discipline.

Objective/rationale: This standard provides footwear and tire track examiners with a comprehensive list of terms widely used and generally accepted in the community. These terms should be used in documenting and reporting forensic analysis in the field of footwear and tire track examination.

Task Group Name: Terminology

Task Group Chair Name: Amanda Lane

Task Group Chair Contact Information: fwt_terminology-chair@workspace.forensicosac.org

Date of Last Task Group Meeting: July 2016

Standards/Guidelines Development Priority 3 Document

Key Components of Standard:

- This standard provides footwear and tire track examiners with a comprehensive list of terms widely used and generally accepted in the community.
- These terms should be used in documenting and reporting forensic analysis in the field of footwear and tire track examination.
- This standard will provide more uniformity in the terminology utilized in the Footwear and Tire Impressions discipline.

Priority 3: Terminology for Footwear and Tire Impressions

Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Review equivalent SWGTREAD document. Created KAVI Project.	SDO 100	Gerry Hauptman	3/6/15
Subcommittee Vote of Approval.	SDO 200	Amanda Lane	4/2017



Standards/Guidelines Development Priority 4 Document

Document Title: Chemical Enhancements of Footwear and Tire Impressions

Scope: This standard is targeted for forensic science professionals actively engaged in the development of footwear and tire track impressions.

Objective/rationale: This standard provides footwear and tire track examiners with a comprehensive list of widely used and generally accepted chemical enhancement techniques.

Task Group Name: Processing/Enhancement Methods TG

Task Group Chair Name: Michael Gorn

Task Group Chair Contact Information: fwt_enhancement-chair@workspace.forensicosac.org

Date of Last Task Group Meeting: July 2016

Standards/Guidelines Development Priority 4 Document

Key Components of Standard:

- This standard provides footwear and tire track examiners with a comprehensive list of validated chemical development techniques utilized in the footwear and tire track discipline.
- These techniques should be used in the development of footwear and tire track impressions.
- This standard will provide more uniformity in the chemical development utilized in the Footwear and Tire Impressions discipline.

Priority 4: Chemical Enhancements of Footwear and Tire Impressions



Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Review equivalent SWGTREAD document. Created KAVI Project.	SDO 100	Mike Gorn	4/2017



Standards/Guidelines Development Priority 5 Document

Document Title: Scope of Work and Minimum Qualifications and Training for Footwear and Tire Examiner

Scope: This standard is targeted for forensic science professionals actively engaged in the training/development of footwear and tire examiners.

Objective/rationale: This standard provides footwear and tire track examiners and trainees with a minimum set of qualifications required to be considered competent prior to taking on the scope of work outlined within.

Task Group Name: Training/Competency TG

Task Group Chair Name: David Kanaris

Task Group Chair Contact Information: fwt_training-chair@workspace.forensicosac.org

Date of Last Task Group Meeting: July 2016

Standards/Guidelines Development Priority 5 Document

Key Components of Standard:

- This standard establishes the minimum qualifications and training an individual shall incur, or an agency shall provide, prior to the determination of competency.
- This standard will provide uniformity in the minimum qualifications and training of examiners within the Footwear and Tire Impressions discipline.

Priority 5: Scope of Work and Minimum Qualifications and Training for Footwear and Tire Examiner



Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage (e.g., SDO 100)	Assignee	Estimated Completion Date
Review equivalent SWGTREAD document. Created KAVI Project.	SDO 100	David Kanaris	4/2017



Summary of Priority Projects

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1	SDO	Guideline for the Preparation of Test Impressions from Footwear and Tires
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Research & Development Needs Identified

- Examiner Reliability Study: Black/White Box Study on Footwear and Tire Examiners
- National Footwear Database/Reference Collection
- Population Frequency of Class Characteristics: Footwear in the United States
- Testing and Validation of 3D Imaging Technologies for Footwear & Tire Impression Evidence
- Probability Study of Randomly Acquired Characteristics (RACs).

Additional Items of Interest

- PCAST Report
- Statistics and Philosophy
- Articulation of conclusions and testimony document



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Physics and Pattern SAC

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