



Priority Action Report

Friction Ridge Subcommittee

SAC Physics/Pattern

Melissa R. Gische

February 23, 2016





Subcommittee Leadership

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Executive Secretary	Rachelle R. Babler	San Diego Police Department	4	rachellebabler.osac@gmail.com



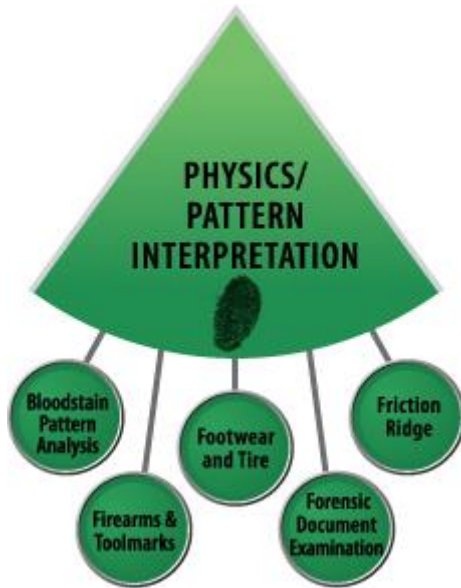
Subcommittee Members



#	Name	Organization	Term	Email
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Discipline Description



The Friction Ridge Subcommittee will focus on standards and guidelines related to the forensic examination of friction ridge detail from the hands and feet.





Bridging the gap from last year to this year...

- Consolidation and reorganization of tasks
 - Staffed task groups with Affiliates
 - Navigated SDO issues
 - Identified strategic way forward
- **RESULT:** Progressing in a coherent and focused manner to develop key standards and guidelines in support of the larger Friction Ridge community.



Priority Topics

- **Topic 1** – Community Research Priority Needs
 - Finalized in SC - Pending SAC approval
- **Topic 2** – Articulation
 - Pending final revision and SC approval
- **Topic 3** – Training
 - Topics identified
 - Modules drafted – pending revision and SC review/discussion
 - Specific training gaps identified and referred to SAC level as applicable (cross-disciplinary)
- **Topic 4** – Examination
 - Focus on conclusions and overarching framework
 - Method process mapping scope expanded to encompass cross-disciplinary
- **Topic 5** – Terminology
 - Pending revisions based on changes from SAC and other SC disciplines



Topic 1: Research

Priority Level: High

- Identify research needs for the friction ridge community

Task Group Name: Research

Task Group Chair Name: Michael French

Task Group Chair Contact Information:

michael.french@morpho.com





Standards/Guidelines Reviewed

Title	Organization	Suggested OSAC Process: (Registry, SDO, Canvass)
Recommendations for Research	SWGFAST	NA
Latent Print Examination and Human Factors: Improving the Practice through a Systems Approach	NIJ/NIST	NA
Interpol Review Papers	Interpol	NA
Strengthening Forensic Science in the United States: A Path Forward	NAS	NA
Response to The Research, Development, Testing & Evaluation Inter-Agency Working Group of the National Science and Technology Council, Committee on Science, Subcommittee on Forensic Science	SWGFAST	NA





Topic 1: Research

Committee Action Plan

Priority (high/med/low/)	Planned Actions	Approx. Deadline	Assignee
High	Reviewed existing resources to identify current state of research in proposed topic areas and conduct gap analysis	Completed	Task Group
High	Drafted recommendations for research	Completed	Task Group





Topic 2: Articulation

Priority Level: High

- Review and revise existing SWGFAST Guideline

Task Group Name: Articulation

Task Group Chair Name: Heidi Eldridge

Task Group Chair Contact Information:

heidi.eldridge@icloud.com





Standards/Guidelines Reviewed

Title	Organization	Suggested OSAC Process: (Registry, SDO, Canvass)
Guideline for the Articulation of the Decision-Making Process for the Individualization in Friction Ridge Examination	SWGFAST	AAFS ASB SDO





Committee Action Plan

Priority (high/med/ low/)	Planned Actions	Approx. Deadline	Assignee
High	Revised format and content	2/28/2016	Task Group
High	Updated references	2/28/2016	Task Group



Topic 3: Training

Priority Level: High

- Develop Standard for Friction Ridge Examination Training
- Develop Standard for Friction Ridge Automation Training

Task Group Name: Training

Task Group Chair Name: Carl Speckels

Task Group Chair Contact Information:
carl.speckels@phoenix.gov





Standards/Guidelines Reviewed

Title	Organization	Suggested OSAC Process: (Registry, SDO, Canvass)
Standards for Minimum Qualifications and Training to Competency for Friction Ridge Examiner Trainees	SWGFAST	AAFS ASB SDO
Standard for Friction Ridge Automation Training	SWGFAST	AAFS ASB SDO
Friction Ridge Skin Identification Training Manual	IAI	NA
Latent Print Examination and Human Factors: Improving the Practice through a Systems Approach	NIJ/NIST	NA





Committee Action Plan

Priority (high/med/low/)	Planned Actions	Approx. Deadline	Assignee
High	Review existing training documents and conduct gap analysis	3/31/2016	Task Group
Medium	Develop continuing education recommendations	3/31/2016	Task Group; coordinate with OSAC Stats TG
Medium	Incorporate human factors topic areas, including visual acuity and cognitive ability	6/30/2016	Task Group; coordinate with OSAC HFC
Medium	Incorporate legal module	6/30/2016	Task Group; coordinate with OSAC LRC



Topic 4: Examination and Conclusions

Priority Level: High

- Develop framework for overarching document
 - Create sub-task groups as needed
- Interdisciplinary Virtual Subcommittee for ACE Process Map (Louis Kriel, louis.kriel@gbj.ga.gov)
- Define conclusions and criteria for examination decisions working within framework of SAC Conclusions (Eric Ray, eray@azdps.gov)
- Identify reporting and documentation requirements

Task Group Name: Examination

Task Group Chair Name: Heidi Eldridge

Task Group Chair Contact Information:
heidi.eldridge@icloud.com



Standards/Guidelines Reviewed

Title	Organization	Suggested OSAC Process: (Registry, SDO, Canvass)
Standards for Examining Friction Ridge Impressions and Resulting Conclusions	SWGFAST	AAFS ASB SDO
Standard for Reporting Friction Ridge Examinations	SWGFAST	AAFS ASB SDO
Standard for Simultaneous Impression Examination	SWGFAST	AAFS ASB SDO
Latent Print Examination and Human Factors: Improving the Practice through a Systems Approach	NIJ/NIST	NA
Standard for the Application of Blind Verification of Friction Ridge Examinations	SWGFAST	AAFS ASB SDO
Standard for the Technical Review of Friction Ridge Examinations	SWGFAST	AAFS ASB SDO





Topic 4: Examinations and Conclusions

Committee Action Plan

Priority (high/med/low/)	Planned Actions	Approx. Deadline	Assignee
High	Develop outline for main document	6/30/2016	Task Group
High	Create Task Groups for chapters	Ongoing	Task Group
High	Draft individual chapters	6/30/2016	Sub-Task Groups
High	Incorporate human factors as appropriate	As needed	Sub-Task Groups; coordinate with OSAC HFC
High	Incorporate measurement of uncertainty as appropriate	As needed	Sub-Task Groups; coordinate with OSAC Stats TG





Topic 5: Terminology

Priority Level: High

- Review and revise extensive glossary of terms related to friction ridge examinations
- Consolidate with other Subcommittees within Physics/Pattern SAC

Task Group Name: Terminology

Task Group Chair Name: Toni Roberts

Task Group Chair Contact Information:

maria.roberts@ic.fbi.gov





Standards/Guidelines Reviewed

Title	Organization	Suggested OSAC Process: (Registry, SDO, Canvass)
Standard Terminology of Friction Ridge Examination (Latent/Tenprint)	SWGFAST	AAFS ASB SDO
Draft Information: Fingerprint Examination - Terminology, Definitions and Acronyms	FSR	NA
Michele Triplett's Fingerprint Terms	NA	NA
Data Format for the Interchange of Fingerprint, Facial & Other Biometric Information	ANSI/NIST	OSAC Registry
The Fingerprint Sourcebook	NIJ	NA
Information Technology – Vocabulary	ISO/IEC	NA



Committee Action Plan

Priority (high/med/low/)	Planned Actions	Approx. Deadline	Assignee
High	Develop an extensive glossary for friction ridge discipline <ul style="list-style-type: none"> • Consolidate terms and definitions • Revise and update terms as needed • Consider adopting ISO rules for terms and definition 	6/30/2016	Task Group; coordinate with Physics/Pattern SAC Terminology TG
Medium	Develop a maintenance plan for the developed glossary document	6/30/2016	Task Group



Additional Items of Interest

- Joint Interdisciplinary Virtual Subcommittees
 - ISO 17020 and 17025
 - ANSI/NIST-ITL
 - ABIS Metrics
 - ACE Process Map
- Best Practices for use of Friction Ridge Automation Technology (i.e. AFIS)
- Conflict Resolution
- Latent Print Detection, Collection, and Preservation (Field and Lab) – coordinate with Crime Scene SC
- Digital Imaging – coordinate with VITAL SC



Additional Documents of Interest

Archived SWGFAST:

- Standard for Consultation
- Standard for the Review of Testimony for Friction Ridge Examiners
- Standard for the Technical Review of Friction Ridge Examiners
- Standard for the Definition and Measurement of Rates of Errors and Non-Consensus Decisions in Friction Ridge Examination
- Standard for the Validation and Performance Review of Friction Ridge Impression Development and Examination Techniques
- Standard a for Quality Assurance Program in Friction Ridge Examinations



2015 – 2016 Summary

- Populated active Task Groups
- Data collection and gap analyses
- Drafted scientifically supported consensus Standards and Guidelines
- Outreach
- Next Priority Areas Identified

Rank	Topic Area
1	Research
2	Articulation
3	Training
4	Examination
5	Terminology

