



# Priority Action Report

## Odontology

Crime Scene / Death Investigation

David Senn for Robert Barsley

February 11, 2016





# Subcommittee Leadership

Position	Name	Organization	Term	Email
Chair	Barsley, Robert	ABFO	4	rbarsl@lsuhsc.edu
Vice Chair	Senn, David	ABFO	2	senn@uthscsa.edu
Executive Secretary	Metcalfe, Roger	ABFO	3	rmetcalf@tarrantcounty.com



# Subcommittee Members



#	Name	Organization	Term	Email
1	Barsley, Robert	ABFO	? SAC	rbarsl@lsuhsc.edu
2	Bush, Mary	AAFS	3	bushma@buffalo.edu
3	Cimrmancic, Mary	AAFS	4	mary.cimrmancic@marquette.edu
4	Dobrin, Larry	ABFO	3	the.dobie@comcast.net
5	Evans, Carla	AAO	2	caevans@uic.edu
6	Freeman, Adam	ABFO	4	drafreeman@westportdental.com
7	Lewis, Jim	ABFO	3	jmlewisdmd@knology.net
8	Loomis, Peter	ABFO	3	peterdds@msn.com
9	McGivney, Jim	ABFO	2	mcgivney.jim@gmail.com
10	Metcalf, Roger	ABFO	3	rmetcalfdds@gmail.com
11	Pitluck, Haskell	AAFS	4	pitluck@mc.net
12	Senn, David	AAFS	2	senn@uthscsa.edu
13	Shiroma, Calvin	JPAC	2	calvin.y.shiroma.civ@mail.mil
14	Stanford, Sharon	ADA	4	stanfords@ada.org
15	Wing, Brad	IAI	4	Brad.Wing@NIST.gov
16	Wright, Frank	ABFO	2	frankwright20@gmail.com
17		3		



# Leesburg, VA Odontology Subcommittee January 29-31, 2016

## Members

Senn  
Metcalf  
Clmmancic  
Dobrin  
Evans  
Freeman  
Loomis  
Pitluck  
Shiroma  
Stanford  
Wing

## Affiliates

Paula Brumit  
Warren Tewes

## Observers

Ken Aschheim



# Discipline Description



## Forensic Odontology:

The application of dentistry to legal issues including, but not limited to, human identification, bitemark analysis, age estimation, litigation, oral and facial injuries, and human abuse and neglect.

# Topic 1: Overview of SDOs

Priority Level: High

- Brad Wing, Secretariat AAFS Academy Standards Board
- Sharon Stanford, Director, Standards Administration ADA

Insight into similarities and differences of the two SDOs

Encouraged early choice of SDO to facilitate document development



# Dental Identification Task Group

Chair: Peter Loomis

Priority Level: High

Two products from this task group

- **ANSI/ADA Standard No. 1058, Forensic Dental Data Set**

- Uniform nomenclature for forensic dental data with standardized terms to convey information for human identification.
- On its way to Registry

- **ADA Technical Report No. 1088, Human Identification by Comparative Dental Analysis**

- Guidelines for dental identification formatted for SDO
- Pending comments from Odontology Subcommittee
- Return to SDO in late February
- Public Comment Adjudication in Spring 2016





# Dental Identification Task Group

Chair: Peter Loomis

Priority Level: High

- Discussed mechanisms for working with DVI Subcommittee to share appropriate Odontology documents with that subcommittee







# Odontology Subcommittee

## Report on Virtual Subcommittee meeting

### Karla Evans

- Data Format for the Interchange of Fingerprint, Facial & Other Biometric Information
- Digital transmissions standards, not a guideline
- Users implement their specifications.





# Dental Age Assessment Task Group

## Mary Cimrmancic for Chair Jim Lewis

Priority Level: High

- Draft guidelines for dental age assessment formulated from multiple sources
- Chair in discussions with selected SDO (ADA)
  - Edit documents using ADA Standard 1077
- Reformatted document to be returned to Odontology Subcommittee for review
- No specific timeline



# Oral and Perioral Injuries: Abuse and Neglect Task Group

Chair: Larry Dobrin

Priority Level: High

- Integrating information from US and International sources
- Guidelines development strategies
  - Recognition
  - Medical assessment
  - Dental assessment
  - Differential Diagnoses
- Proposed SDO selection (ADA)
- Proposed adding John Melville, MD to group (Child abuse specialist)
- No specific timeline

# Bitemark Task Group

Co-Chair Adam Freeman for Co-Chair Frank Wright

Priority Level: High

- Draft definition and criteria for human bitemark
- Developed evidence collection guidelines
- Developed proposed algorithm (decision tree)
- Co-Chairs in discussions with selected SDO (AAFS ASB)
- Reformatting documents to conform to AAFS ASB SDO
- No specific timeline



# Odontology Subcommittee

## Research Needs:

- Digital 3D Imaging of Patterned Injuries on human skin
- Quality and quantity of concordant features required for human Identification
- Critical Comparison of Dental Age Assessment Methods
- Specific Population Studies in Age Estimation
- Methods for determination of error rates in forensic odontology
- Reliability of Bitemark Analysis methodology

# Odontology Subcommittee

## KAVI live demonstration

### Peter Loomis



- Review documents
- Add comments



# Odontology Subcommittee

## Reports from Liaison Committee meetings

- Quality Infrastructure Committee -Mary Cimrmancic
- Legal Resource Committee- Haskell Pitluck/Roger Metcalf

## Formation of new task group

- Odontology terminology task group
  - Develop terminology/glossary of forensic odontology terms
- Members
  - Bob Barsley- Chair
  - Ken Aschheim



# Odontology Subcommittee

Two affiliates approved for elevation to Odontology Subcommittee membership

- Paula Brumit
- Warren Tewes







# Odontology Subcommittee

## Carla Evans

### Report on status of 3D Imaging

- 3D Facial Scanners
- Remote Sensors
- New Technology placeholder in KAVI
- Adapt Orthodontic photographic standards to forensic odontology





# Odontology Subcommittee

Two affiliates approved for elevation to Odontology Subcommittee membership

- Paula Brumit
- Warren Tewes

Greg Davis suggested adding statistician David Banks of Duke University to Odontology Subcommittee

Discussed adding a Maxillofacial Radiologist to the Odontology Subcommittee

