

Northeastern Association of Forensic Scientists

NEAFS Plenary Session Hershey, PA November 5, 2014

National Commission on Forensic Science (NCFS) and Organization of Scientific Area Committees (OSAC)

John M. Butler, Ph.D.

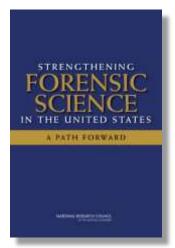
National Institute of Standards and Technology

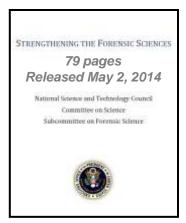
NIST Fellow & Special Assistant to the Director for Forensic Science

Vice-Chair, National Commission on Forensic Science



NCFS and OSAC: U.S. Efforts to Strengthen Forensic Science





http://www.whitehouse.gov/sites/default/file s/microsites/ostp/NSTC/strengthening_the_ forensic_sciences_may_-_2014.pdf

- National Academy of Sciences (NAS)
 report issued in Feb 2009
- White House Subcommittee on Forensic Science (SoFS) operated from July 2009 to Dec 2012

DOJ/NIST Partnership (announced Feb 2013)

- 1. NCFS (National Commission on Forensic Science)
 - First meeting held February 3-4, 2014 in Washington DC
- 2. OSAC (Organization of Scientific Area Committees)
 - Membership named; first public meetings to be held Feb 2015

National Commission on Forensic Science

A Federal Advisory Committee for the U.S. Department of Justice





http://www.justice.gov/ncfs

February 3-4, 2014 was the first meeting of the **National Commission on Forensic Science**



37 Commissioners + DOJ/NIST Leadership Team (with ~100 public attendees)

Webcast of Second NCFS Meeting

http://www.nist.gov/forensics/national-commission-on-forensic-science-webcast.cfm



National Commission on Forensic Science (NCFS)



NCFS Leadership



James M. Cole Willie E. May
Deputy Attorney General Acting Director of NIST

DOJ Co-Chair NIST Co-Chair



Nelson A. Santos Vice-Chair (DOJ)



John M. Butler Vice-Chair (NIST)

Next meeting (5th): January 29-30, 2015

Members of the National Commission on Forensic Science (NCFS)

Voting Members

http://www.justice.gov/ncfs/members

James Cole (DOJ Co-Chair)	Deputy Attorney General - U.S. Department of Justice (DOJ)	
Willie May (NIST Co-Chair)	Acting Director - National Institute of Standards and Technology (NIST)	

	Nelson Santos (DOJ Vice-Chair)	Deputy Assistant Administrator - Drug Enforcement Administration (DEA) Laboratory	
	John Butler (NIST Vice-Chair)	Special Assistant to the Director for Forensic Science - NIST	
	Brette Steele (DFO)	Senior Advisor on Forensic Science and Senior Counsel within the Office of the DAG	
Robin Jones (Program Manage		Contractor to U.S. Department of Justice	

Department of Justice

Department of oddied	
Greg Czarnopys	Deputy Assistant Director - Alcohol, Tobacco, Firearms and Explosives (ATF) Lab
John Kacavas	Prosecuting Attorney (U.S. Attorney - District of New Hampshire)
Gerry LaPorte*	Director - Office of Investigative and Forensic Sciences, National Institute of Justice (NIJ)
Marc LeBeau	Senior Forensic Scientist - Federal Bureau of Investigation (FBI) Laboratory
Kathryn Turman*	Assistant Director - FBI's Office of Victim Assistance



James M. Cole **Deputy Attorney General DOJ Co-Chair**



Willie E. May Acting Director of NIST **NIST Co-Chair**



Nelson A. Santos John M. Butler Vice-Chair (DOJ)



Vice-Chair (NIST)



Brette L. Steele Designated Federal Official (DFO)



Robin W. Jones Program Manager

Commission Staff

Members of the National Commission on Forensic Science (NCFS)

http://www.justice.gov/ncfs/members

	Practitioners			
6	Cecelia Crouse	Laboratory Director - Palm Beach County (Florida) Sheriff's Office Crime Laboratory		
7	Dean Gialamas	Assistant Division Director - Los Angeles County (California) Sheriff's Department		
8	Linda Jackson	Laboratory Director - Virginia Department of Forensic Science		
	Patricia Manzolillo*	Laboratory Director - United States Postal Inspection Service		
9	Michael (Jeff) Salyards	Executive Director - Defense Forensic Science Center, Department of Defense (DoD)		
10	Ryant Washington	Sheriff - Fluvanna County (Virginia) Sheriff's Office		
11	Phil Pulaski	Former Chief of Detectives (retired) - New York City Police Department		
	Medical Examiner/Coroner			
12	Vincent Di Maio	Medical Examiner (retired) - Bexar County (San Antonio), Texas		
13	John Fudenberg	Assistant Coroner - Clark County (Las Vegas, Nevada) Office of the Coroner/Medical Examiner		
	Legal Community and Officers of the Court			
14	Ted Hunt	Prosecuting Attorney (Kansas City, Missouri)		
15	Matt Redle	Prosecuting Attorney (Sheridan County, Wyoming)		
16	Pam King	Defense Attorney (State of Minnesota Public Defender)		
17	Julia Leighton	Defense Attorney (Washington DC Public Defender Service)		
18	Judge Barbara Hervey	Judge (Texas State Court of Criminal Appeals)		
19	Judge Bridget Mary McCormack Judge (Michigan State Supreme Court)			
	Judge Jed Rakoff*	Judge (Senior U.S. District Judge for the Southern District of New York)		

Members of the National Commission on Forensic Science (NCFS)

http://www.justice.gov/ncfs/members

Academic and/or Researchers

20 21

30 31

Suzanne Bell Professor of Chemistry (West Virginia University)	
Frederick Bieber	Professor of Pathology (Harvard Medical School)
Thomas Cech	Professor of Biochemistry (University of Colorado-Boulder)
M. Bonner Denton	Professor of Chemistry and Geosciences (University of Arizona)
Andrea Ferreira-Gonzalez	Professor of Pathology (Virginia Commonwealth University)
Stephen Fienberg	Professor of Statistics and Social Science (Carnegie Mellon University)
S. James (Jim) Gates, Jr.	Professor of Physics (University of Maryland)
Troy Duster	Professor of Sociology (University of California-Berkeley)
Jules Epstein	Professor of Law (Widener University School of Law)
Paul Giannelli	Professor of Law (Case Western Reserve School of Law)

Marilyn Huestis*	Chief of Chemistry and Drug Metabolism - National Institute of Drug Abuse, NIH
Mark Weiss*	Director of the Behavioral and Cognitive Sciences Division - National Science Foundation

Additional Stakeholders

David Honey* Assistant Deputy Director - National Intelligence for Science and Technology			
Susan Howley Director of Public Policy - National Center for Victims of Crime (Advocate for Victim's F			
Peter Neufeld Defense Attorney and Co-Founder of the Innocence Project (Advocate for Defendant's Frances Schrotter* Senior Vice President and Chief Operating Officer - American National Standards Insti			

31 voting members and 8 ex-officio members

NCFS Co-Chairs and OSTP Director address the first Commission meeting



NCFS meeting 1 (February 3, 2014)





Informational Briefings

- Judge Harry
 Edwards spoke on
 findings from the
 2009 NAS report
- Bureau of Justice
 Statistics researcher
 Matt DuRose
 reviewed the 2009
 census of U.S.
 forensic laboratories

White House **Subcommittee on Forensic Science** committee chairs discuss outcome of work conducted from 2009 to 2012

Patricia Manzolillo
U.S. Postal Service
Forensic Laboratory



Accreditation & Certification

Dean GialamasLA County Sheriff's
Office Crime Lab



Proficiency Testing

Jeff Salyards
Defense Forensic
Science Center



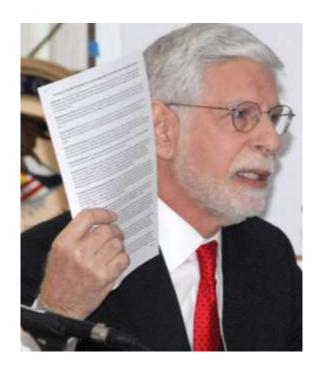
Research & Development

Gerry LaPorte
National Institute
of Justice



Documentary Standards

Mark Stolorow (NIST) introduces the Organization of Scientific Area Committees (OSAC) plan





For more information, see http://www.nist.gov/forensics/osac.cfm

Commission discussions were led by Vice-Chairs John Butler (NIST) and Nelson Santos (DOJ)



Discussed issues and developed subcommittee topics

Current NCFS Subcommittees

where much of the Commission work will occur...

- 1. Accreditation and Proficiency Testing
- 2. Interim Solutions
- 3. Medico-legal Death Investigation
- 4. Reporting and Testimony
- 5. Scientific Inquiry and Research
- 6. Training on Science and Law
- 7. Human Factors and Cognitive Bias

Each NCFS
subcommittee
includes individuals
beyond the
Commissioners

<u>Issues being examined</u>:

- (a) Foundational literature
- (b) Educational programs
- (c) Transition of research
- (d) Measuring impact

Subcommittee products will be discussed and voted on by the full Commission prior to be recommended to the Attorney General

NCFS Meeting 2 Topics

May 12-13, 2014

- Panel on Cognitive Bias and Human Factors
 - Speakers: Deborah Boehm-Davis, John Collins,
 Michael Risinger, David H. Kaye
- Panel on Ethics in Forensic Science
 - Speakers: Jamie Upshaw Downs, Rob Lesnevich
- Subcommittee Reports
- OSAC Update
 - Speakers: Mark Stolorow, Willie May

NCFS Meeting Materials Available

http://www.justice.gov/ncfs/meeting-materials.html

Meeting Summary

23 page pdf document

National Commission on Forensic Science

Meeting Summary

May 12-13, 2014

Office of Justice Programs 810 7th Street NW, Washington, DC

Speaker Slides (pdf files)

Ann M Calley & Mil. (Freith Swifter, Greek) of Concepts of Concept

2nd National Commission on Forensic Science Webcast

National Commission on Forensic Science Meeting...

Webcast
(>9 hours of archived video)

MEETING TWO

References

Listing of 22 references provided to Commissioners

Human Factors and Cognitive Bias in Forensic Science

Deborah Boehm-Davis, Dean, College of Humanities and Social Sciences and University Professor, Department of Psychology, George Mason University

John Collins, President, Forensic Foundations Group

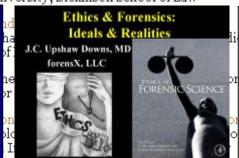
The Need for Sequential Unmasking

Michael Risinger, John J. Gibbons Professor of Law, Seton Hall University School of Law

David H. Kave

Distinguished Professor of Law and Weiss Family Faculty Scholar, Penn State University, Dickinson School of Law







Commission Work Products

The Commission is a Department of Justice
Federal Advisory Committee and therefore only
has direct authority to make recommendations
to the Attorney General (who can direct efforts in
three DOJ laboratories: FBI, DEA, and ATF)

 Work Product Types: (1) Views, (2) Directives, or (3) Policies

Voting is conducted electronically with a **two-thirds majority required** to pass

NCFS Meeting 3 Topics

August 26-27, 2014

- Amended Bylaws Reviewed
 - Vote passed on a directive to survey police forensic units
- Panel on Cognitive Bias and Human Factors
 - Speakers: Itiel Dror, Bill Thompson
 - New subcommittee on Human Factors was formed
- Panel on Latent Print Automated Fingerprint Identification System (AFIS) Interoperability
 - Speakers: Melissa Gische, Austin Hicklin, Lauren Reed, David Russell
- UK Regulator Andrew Rennison to share lessons learned from the United Kingdom
- Panel on Role of Accreditation in Forensic Science
 - Speakers: Beth Mishalanie, Ross Randlett, Roger Klein
- Subcommittee Reports

NCFS Meeting 4 Topics

October 28-29, 2014

- Subcommittee Reports & Work Product Discussion
 - Six work products (see next slide)
- OSAC and NIST Center of Excellence update
 - Speaker: Mark Stolorow
- Bureau of Justice Statistics Law Enforcement Agency Forensic Unit Survey Proposal (follow-up to previous meeting's directive)
 - Speakers: Erica Smith, Matthew DuRose
- Reviews of recently released reports
 - Achieving Interoperability for Latent Fingerprint Identification in the United States (OSTP)
 - Speakers: Tania Simoncelli, Laura Gerhardt
 - Identifying the Culprit: Assessing Eyewitness Identification (NRC)
 - Speakers: Thomas Albright, Judge Jed Rakoff

Commission Draft Work Products

http://www.justice.gov/ncfs/work-products

- 1. Universal Accreditation (policy)
- 2. Scientific Literature (views)
- 3. Pretrial Discovery (policies & directives)
- 4. Expert Testimony (policies & directives)
- 5. MDI accreditation & certification (policy)
- 6. Terminology (views)

Public comments are reviewed and input from Commissioners sought during NCFS meeting deliberations

Comments Received on Initial NCFS Subcommittee Work Products

Posted October 14, 2014 and closed October 27, 2014 11:59PM

Subcommittees decided on format, length, etc.

Document	Length	# Comments Received
Universal Accreditation (policy)	4 pages	21
Scientific Literature (views)	4 pages	9
Pretrial Discovery (policies & directives)	28 pages	37
Expert Testimony (policies & directives)	27 pages	40
MDI accreditation & certification (policy)	7 pages	16
Terminology (views)	2 pages	15
		138 comments

Public comments provided to www.Regulations.gov (docket # DOJ-LA-2014-0006)

Future NCFS Meeting Dates

http://www.justice.gov/ncfs

Meeting 5: January 29-30, 2015 Meeting 6: April 30-May 1, 2015

Additional meeting dates should be set before the end of 2014

Federal Advisory Committees exist on a 2-year renewal cycle
The existing Commission *charter expires April 23, 2015* **DOJ plans to renew charter** (and include digital evidence)

Organization of Scientific Area Committees (OSAC)

Forensic discipline-specific guidance groups administered by NIST

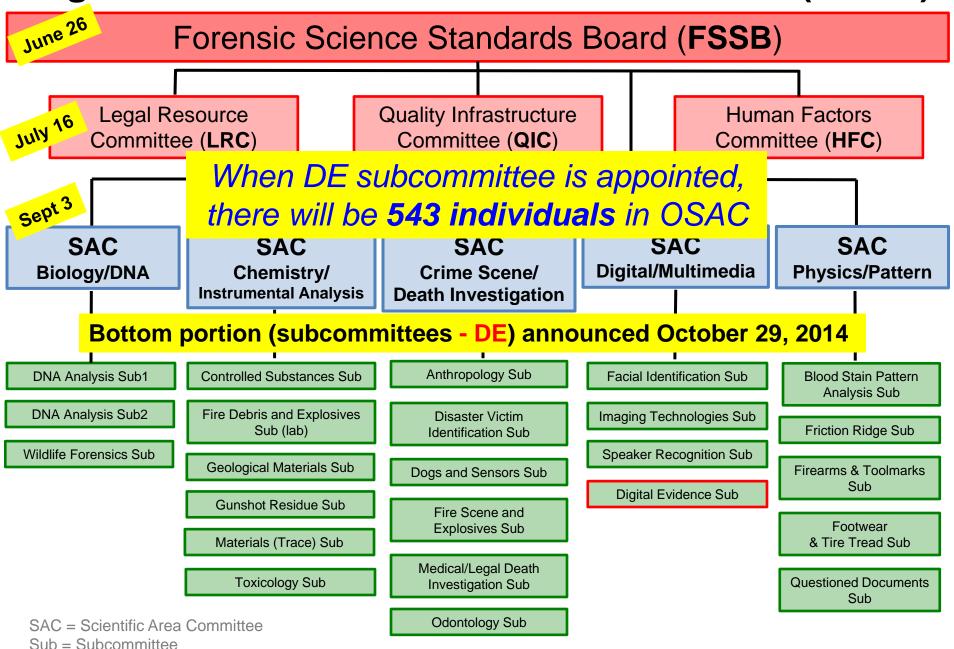


http://www.nist.gov/forensics/osac/index.cfm

OSAC Launch

- February 4, 2014 announcement to NCFS
- The OSAC will be a collaborative body of more than 500 forensic science practitioners and other experts who represent all levels of the government, academia and industry.
- Establishing OSAC to strengthen the nation's use of forensic science by:
 - supporting the development and promulgation of forensic science consensus documentary standards and guidelines
 - determining each forensic discipline's research and measurement standards needs
 - ensuring that a sufficient scientific basis exists for each discipline

Organization of Scientific Area Committees (OSAC)



Understanding the OSAC Levels

Forensic Science Standards Board (FSSB)

- Set policy, rules, priorities for OSAC
- Manage OSAC Registry of Approved Standards and Approved Guidelines

Legal Resource, Quality Infrastructure, Human Factors Committees

 Provide advice across all forensic science and discipline committees

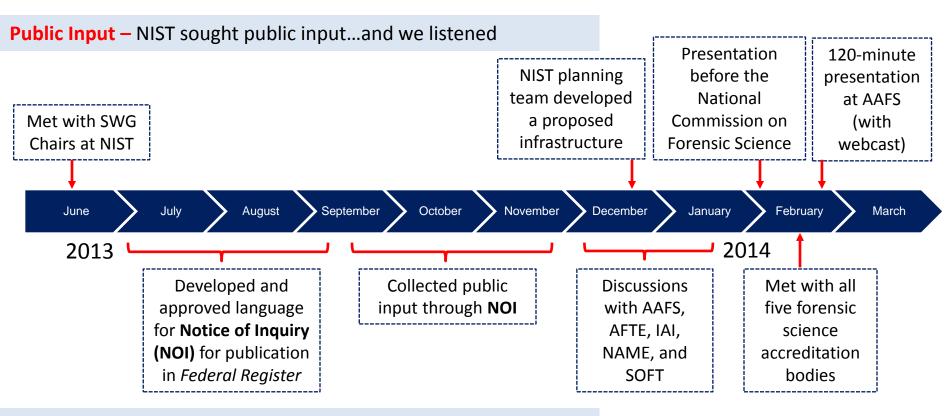
Scientific Area Committees

- Manage work within a scientific area (harmonize/leverage across related disciplines)
- Adopt and approve scientific area standards, (e.g., terminology, reporting requirements, conclusion statements)

Discipline Specific Subcommittees (Working Groups)

 Identify and develop (with an SDO or the canvass method) standards & guidelines for discipline

Organization of Scientific Area Committees (OSAC) Input Timeline



Key Values

- Scientifically valid (researchers and statisticians)
- Linked to standards developers & accreditation bodies
- Practitioner generated (forensic scientists)
- Courtroom connected (legal input)

		Scientific Working Group (SWG)	Topic (Forensic Discipline)	Start	Sponsor	Website
	1	SWGDAM	DNA	1988	FBI	swgdam.org
	2	SWGMAT	Materials (Trace)	1992	FBI	swgmat.org
	3	SWGFAST	Friction Ridge (Fingerprints)	1995	FBI	swgfast.org
	4	SWGDRUG	Controlled Substances	1997	DEA	swgdrug.org
	5	SWGIT	Imaging Technologies	1997	FBI OTD	swgit.org
	6	SWGDOC	Document Examination	1997	FBI	swgdoc.org
	7	SWGDE	Digital Evidence	1998	FBI OTD	swgde.org
	8	SWGGUN	Firearms & Toolmar NI I fundi	na of	SMCc h	ac etannad:
	9	SWGFEX	Fire Debris & Explo NIJ funding of SWGs has stopped;			
1	10	SWGSTAIN	Bloodstain Pattern SWGDAM and SWGDE will			⊨ will
•	11	SWGTREAD	Shoeprint & Tire Tre Continue	with F	BI fundi	ng
1	12	SWGDOG	Dog & Orthogonal Detector	2004	ГВІ	swgaog.nu.eau
1	13	SWGGSR	Gun Shot Residue	2007	Collec	tively these
1	14	SWGANTH	Anthropology	2008		
1	15	SWGTOX	Toxicology	2009	21 SWC	Gs have had
1	16	FISWG	Facial Identification	2009	>750 participants	
1	17	SWGDVI	Disaster Victim Identification	2010	and have produced >250 documents	
1	18	SWGMDI	Medicolegal Death Investigation	2010		
1	19	SWGGEO	Geological Materials	2011		
2	20	SWGWILD	Wildlife Forensics	2011	USFWS	wildlifeforensicscience. org/ swgwild
2	21	SWGSPEAKER	Voice Analysis	2012	FBI	swg-speaker.org

Department of Justice

Policy focused

Limited Term (FACA)

Attorney General

Recommendations

National Commission on Forensic Science (NCFS)

NIST

Practice focused

Ongoing (Forensic Science Quality Infrastructure)

Organization of Scientific Area Committees (OSAC)

Forensic Science Standards Board (FSSB)



Practice focused

Ongoing (Forensic Science Quality Infrastructure)

Organization of Scientific Area Committees (OSAC)

Forensic Science Standards Board (FSSB) Outputs

Forensic Science Code of Practice

Process & technical merit

OSAC Registry of Approved Standards Technical merit

OSAC Registry of Approved Guidelines

Accrediting Bodies (e.g., ASCLD/LAB)

Providing Supplemental Material for Laboratories Audits against ISO 17025, etc.

Save the Date for Future Meetings

Forensics@NIST (Gaithersburg, MD):

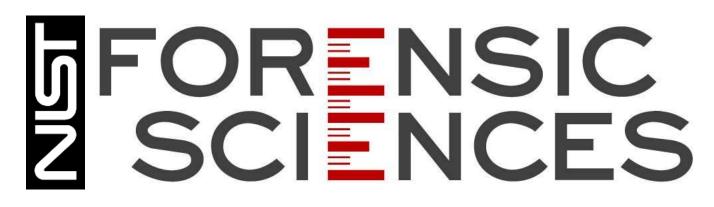
December 3-4, 2014

will be webcast; program will showcase NIST research in DNA, digital evidence, ballistics, and statistics

International Symposium on Forensic
 Measurement Issues and Error (Washington, DC):
 July 20-24, 2015 is being planned

National Commission on Forensic Science (NCFS): www.justice.gov/ncfs

Organization of Scientific Area Committees (OSAC): www.nist.gov/forensics/osac/index.cfm



www.nist.gov/forensics

