



# Priority Action Report

## Chemistry / Instrumental Analysis Scientific Area Committee (SAC)

Jose Almirall, Chair

Feb. 14, 2017





# Committee Leadership

Position	Name	Organization	Term	Email
Chair	Jose Almirall	Florida International University, Dept. of Chemistry and Biochemistry	2019	almirall@fiu.edu
Vice Chair	Chris Bommarito	Forensic Science Consultants Inc.	2019	bommarito@forsci.com
Executive Secretary	Lynn Garcia (LRC)	Texas Forensic Science Commission	2019	lynn.garcia@fsc.texas.gov



# Committee Members



#	Name	Organization	Term	Email
1	Carl E. Chasteen	State of Florida/Division of State Fire Marshal	2019	carl.chasteen@myfloridacfo.com
2	Chris E. Taylor	Defense Forensic Science Center- US Army Criminal Investigation Laboratory	2018	chris.e.taylor.civ@mail.mil
4	Eric B. Steel	NIST	2018	eric.steel@nist.gov
5	Patrick Buzzini	Sam Houston State University	2018	patrick.buzzini@shsu.edu
6	Scott R. Oulton	US Department of Justice, Drug Enforcement Administration	2017	scott.r.oulton@usdoj.gov
7	Stephen L. Morgan	University of South Carolina, Dept. of Chemistry and Biochemistry	2018	morgansl@mailbox.sc.edu
8	William Guthrie	NIST	2019	william.guthrie@nist.gov
9	Bruce Houlihan (QIC)	Orange County Crime Laboratory / Orange County Sheriff-Coroner	2017	bruceh@occl.ocgov.com
10	Hal R. Arkes (HFC)	Ohio State University (Emeritus)	2019	arkes.1@osu.edu



# SAC Committee Members (subcommittee chairs)



#	Name	Organization	Term	Email
1	Vincent J. Desiderio, Fire Debris and Explosives	US Postal Inspection Service Laboratory	2017	VJDesiderio@uspis.gov
2	Andrew M. Bowen, Geological Materials	US Postal Inspection Service Laboratory	2017	AMBowen@uspis.gov
3	Michael Martinez, Gunshot Residue	Bexar County Criminal Investigation Laboratory	2018	mmartinez@bexar.org
4	Susan Gross, Materials (Trace)	Minnesota Bureau of Criminal Apprehension	2017	sue.t.gross@state.mn.us
5	Sandra E. Rodriguez-Cruz, Seized Drugs	DEA	2019	sandra.e.rodriguez- cruz@usdoj.gov
6	Marc A. LeBeau, Toxicology	FBI	2019	marc.lebeau@ic.fbi.gov



# Chemistry and Instrumental Analysis

<https://www.nist.gov/topics/forensic-science/sac-chemistryinstrumental-analysis>



- Forensic Chemistry Disciplines
  - Recognize existing (ASTM) standards and help develop new standards:
    - Fire Debris and Explosives - 10 existing and 1 new
    - Geological Materials - 8 new standards
    - Gunshot Residue - 1 existing and 5 new
    - Materials (Trace) - 13 existing and 1 new
    - Seized Drugs - 10 existing and 1 new standards
    - Toxicology - 1 ASB and 10 new standards
- Total - 35 existing and 26 new standards  
61 forensic chemistry standards**

**(See handout of all Chemistry SAC standards)**

# Chemistry SAC Task Groups (TG)

- Chemistry SAC – Education and Training TG (30 members)
- Chemistry SAC – Proficiency Testing TG (8 members)
- Subcommittee Task Groups
  - Fire Debris and Explosives – 6 task groups (34 members)
  - Geological Materials - 14 task groups (17 members)
  - Gunshot Residue - 5 task groups (29 members)
  - Materials (Trace) - 9 task groups (40 members)
  - Seized Drugs - 6 task groups (23 members)
  - Toxicology - 13 task groups (42 members)

**Total - 55 task groups and 223 members\***

**\*OSAC affiliates serve as TG members / OSAC members may serve on more than one TG**



# Research & Development Needs Identified

<https://www.nist.gov/topics/forensic-science/osac-research-development-needs>

**Seized Drugs - 2 projects identified**

**Fire Debris and Explosives - 3 projects identified**

**Geological Materials - 1 project identified**

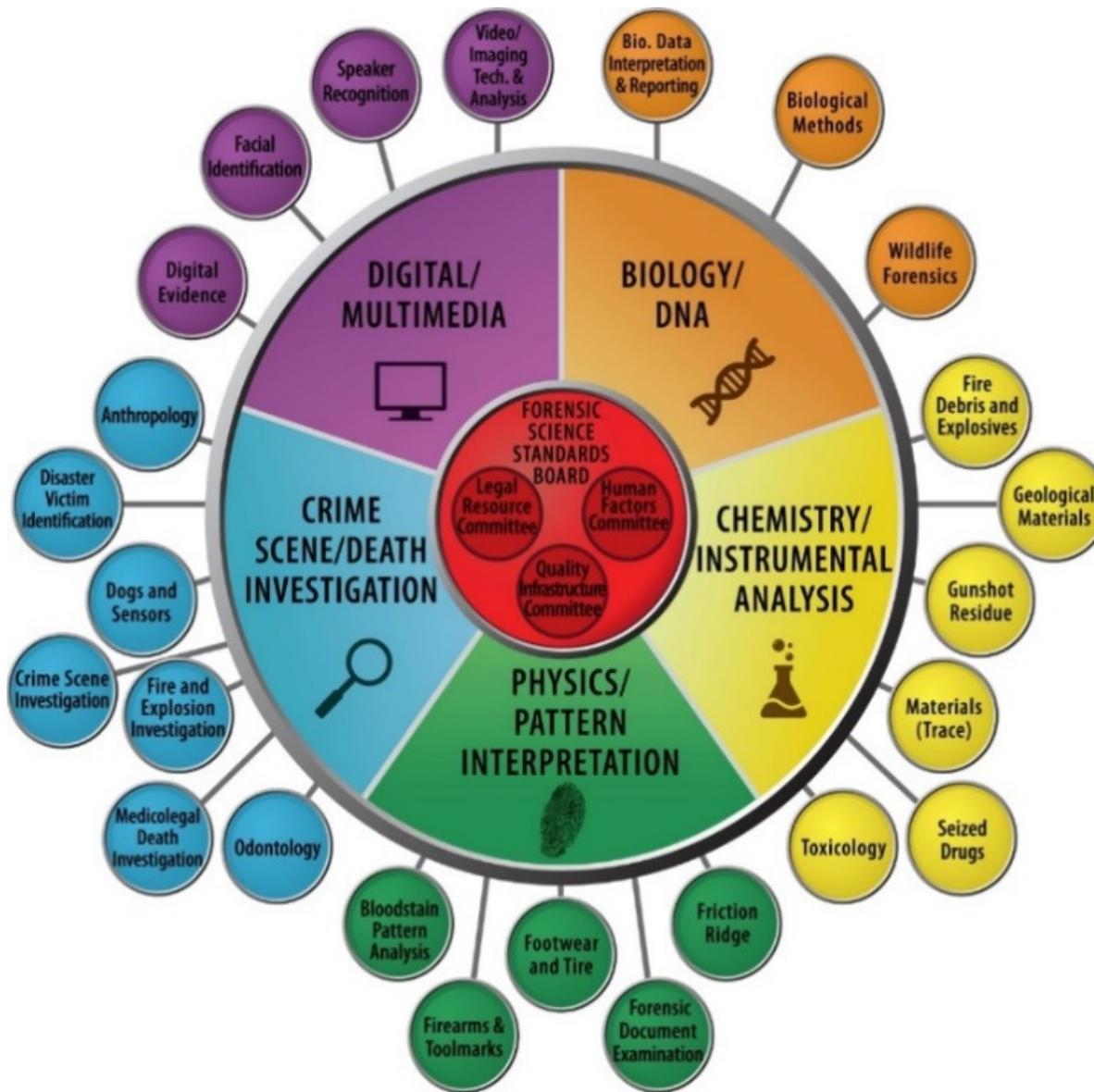
**Materials (Trace) - 2 projects identified**

**Gunshot Residue - 5 projects identified**

**Toxicology - 4 projects identified**

**Total – 17 specific research projects identified for the Chemistry SAC**







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