

Chemistry/Instrumental Analysis Scientific Area Committee Public Meeting

Scott R. Oulton
Chair of Chemistry/Instrumental Analysis SAC



OSAC Process

Kubler-Ross model for the 5 stages of grief...

1. Denial
2. Anger
3. Bargaining
4. Depression
5. Acceptance



Accomplishments

- **1 standard on the registry and 4 more very close**
- **Many more being considered/developed**
- **Leading new policy decisions**



SAC Membership

- **Jose Almirall promoted to FSSB**
 - Welcome new member, Dr. Patrick Buzzini
- **New Vice Chair elected**
 - Congratulations Chris Bommarito
- **Bill Schnek stepped down as chair GEO**
 - Soliciting replacement now



First Standards Brought to FSSB

1. SAC Chem Seized Drugs RA-1 (Standard): **ASTM E2329-14 Standard Practice for Identification of Seized Drugs, 2014 - Registry**
2. SAC Chem Seized Drugs RA-3 (Standard): **ASTM E2548-11e1 Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis, 2011 – FSSB Ballot**
3. SAC Chem Materials: RA-2 (Standard) **ASTM E2926-13 Standard Test Method for Forensic Comparison of Glass Using Micro X-ray Fluorescence (u-XRF) – FSSB Ballot**

First Standards Brought to FSSB

4. SAC Chem, Materials RA-4 (Standard): **ASTM E2330-12 Standard Test Method for Determination of Concentrations of Elements in Glass Samples Using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for Forensic Comparisons – FSSB Ballot**
5. SAC Chem Fire Debris & Explosives RA-1 (Standard): **ASTM E2881-13 Standard Test Method for Extraction and Derivatization of Vegetable Oils and Fats from Fire Debris and Liquid Samples with Analysis by Gas Chromatography-Mass Spectrometry - QIC Adjudication**

SAC Working Groups

1. Terminology Task Group
2. Training Task Group
3. Proficiency Testing Task Group
4. Quality Assurance Task Group
5. Primer on Forensic Statistics



Terminology Task Group

- **Collected terms from each chemistry sub-discipline**
- **Alphabetizing, including definition, source, which sub-discipline affected, etc.**
- **Goal to have list completed by July 2016 to pass off to QIC**



Education/Training Task Group

- **Collected all education and training documents from chemistry SAC disciplines**
- **Combined foundational education and training elements from each document into draft standard**
 - **Reviews and edits on going in the Task Group**
- **Next Steps:**
 - **Consider utilizing proposed ASTM document on education/training**
 - **Finalize product for SAC and Resource committee review**



Proficiency Task Group

- **Accreditation Requirements for Proficiency Testing Providers**
 - Intend to put ISO 17043 (Conformity assessment -- General requirements for proficiency testing) and ISO 13528 (Statistical methods for use in proficiency testing by interlaboratory comparison) for inclusion on registry as standards.
- **Began to write a Standard Guide for Proficiency Testing**
 - Outline proficiency testing requirements of both proficiency test providers and forensic laboratories.
- **Goal to have document submitted to SDO by August 2016**



Quality Assurance Task Group

- **Developing team from Chemistry SAC subcommittees**
- **Next steps:**
 - **Data call of all QA/QC documents within SAC**
 - **Compare like elements for potential inderdisciplinary overarching standard document.**
- **Goal to complete within 1 year**



Primer on Forensic Statistics

- **Disconnect between forensic scientists and statisticians**
- **Working to educate both disciplines**
- **Final product intended for training entire OSAC**





Questions?

Scott R. Oulton
Chair, Chemistry SAC

