



Scientific Advisory Board briefing to the Conference of States Parties

Christopher Timperley

SAB Chair

Cheng Tang

Vice-Chair



Thursday 1 December 2016

17

Cl

Chlorine
35.45





17

Cl

Chlorine
35.4527

DANGER

CHLORINE

**CAUSE BURNS
SEVERE EYE HAZARD
MAY BE FATAL IF INHALED**



SAB reports 2016

Meetings

SAB-23/1 (22 April) and SAB-24/1 (28 Oct)

Advice to DG

Scheduled chemicals	SAB-23/WP.1, 28 April
Sample stability and storage	SAB-23/WP.2, 25 May

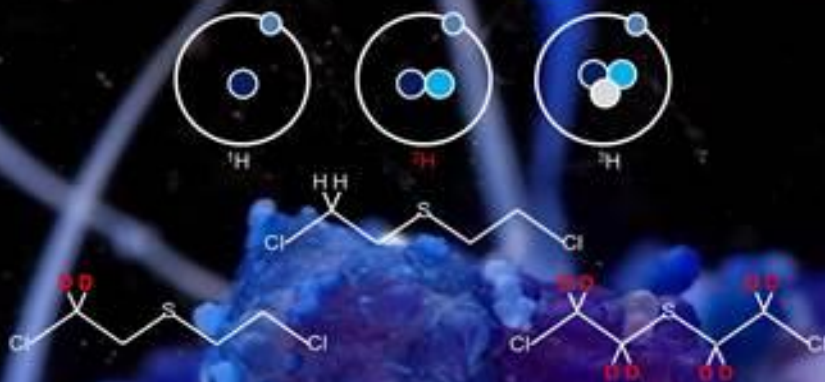
Workshops

Chemical forensics	SAB-24/WP.1, 14 July
Agent toxicity-response-MedCM	SAB-24/WP.2, 14 Oct

SCIENCE FOR DIPLOMATS

ISOTOPIC LABELS, STEREOISOMERS, & SCHEDULED CHEMICALS

WHY DOES THIS MATTER? A REVIEW OF THE SAB'S ADVICE



WEDNESDAY 13 JULY 2016

13:30-15:00

OOMS ROOM

LIGHT LUNCH PROVIDED AT 13:00



Science for Diplomats at EC-83

Chemical Weapons Sample Stability and Storage

12 October 13:30 – 14:45

Ooms Room

(light lunch available at 13:00)





OPCW

Scientific Advisory Board

Twenty-Fourth Session
25 – 28 October 2016

SAB-24 WP.1
14 July 2016
ENGLISH only

REPORT OF THE SCIENTIFIC ADVISORY BOARD'S WORKSHOP ON CHEMICAL FORENSICS

1. EXECUTIVE SUMMARY

- 1.1 The OPCW Scientific Advisory Board (SAB) in cooperation with VERIFIN held a workshop, "Chemical Forensics: Capabilities across the Field and the Potential Applications in Chemical Weapons Convention Implementation", from 20 to 22 June 2016 in Helsinki, Finland. The workshop is one of a series intended to inform the report of the SAB on developments in science and technology to the Fourth Review Conference¹ of the Chemical Weapons Convention to be held in 2018. Interest in chemical forensics, and its relevance to the work of the OPCW, has been described through Recommendation 17 of the OPCW SAB's Temporary Working group on Verification.
- 1.2 Forensic science is defined as the study of traces (remnants of presence and/or activity).^{4,5} These are silent witnesses that need to be detected, seen, and understood to make reasonable inferences about criminal phenomena, investigation or demonstration for intelligence, investigation and court purposes.
- 1.3 Chemical forensics aims to obtain information from chemical remnants that is relevant to investigative, legal and intelligence questions. Just as fingerprints and DNA can provide unique signatures that can be used to identify individuals, chemical samples can provide distinctive signatures (for example through their impurities

¹ Finding for the workshop was provided in part through project III (Science and Technology: Assessment of Developments in Science and Technology) of ESI Council Decision (CFSP) 2015/259 dated 17 February 2015. http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2015.043.01.0014.01.ENG

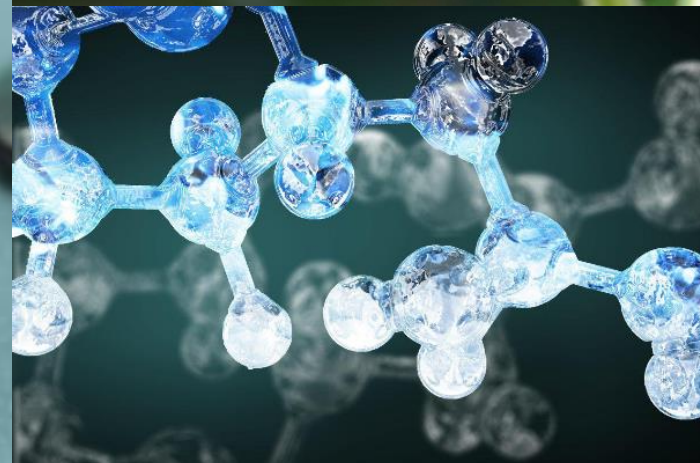
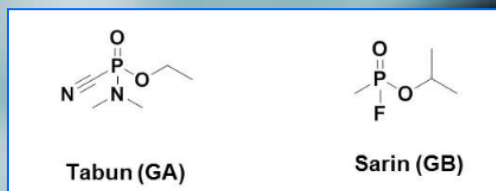
² Fourth Special Session of the Conference of the States Parties to Review the Operation of the Chemical Weapons Convention.

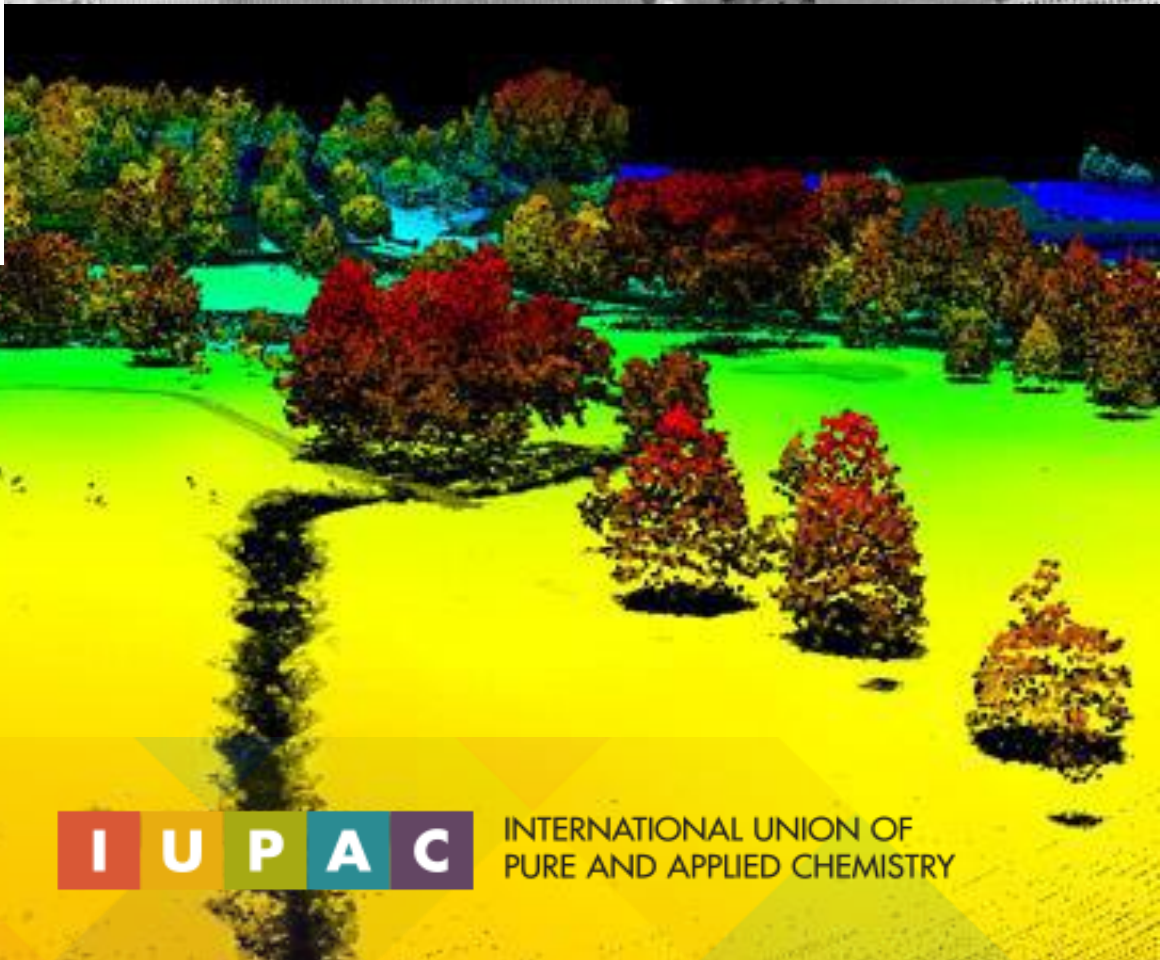
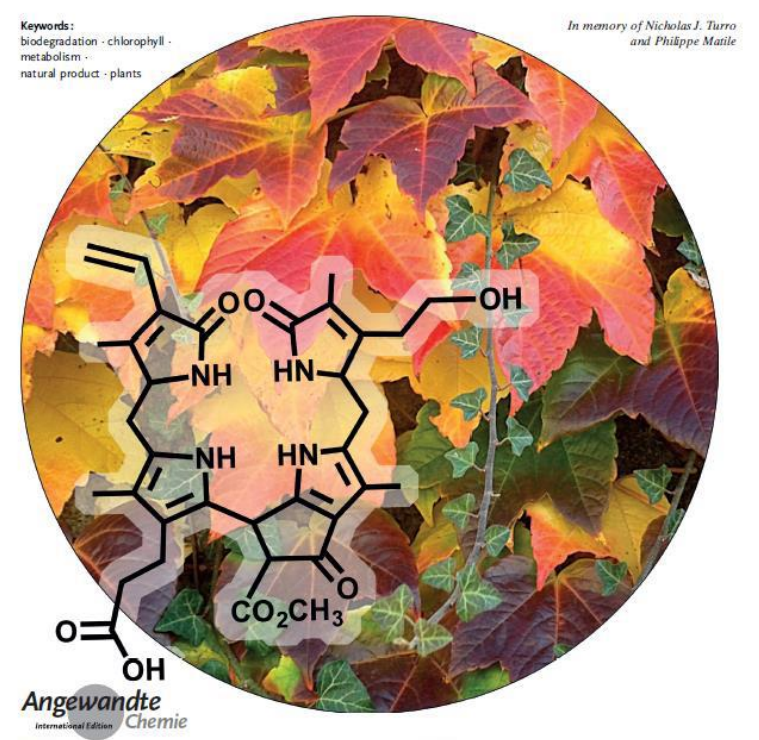
³ Verification, Report of the Scientific Advisory Board's Temporary Working Group (SAB REP/1/15, dated June 2015). Available at www.opcw.org/fileadmin/OPCW/SAB-on-Field_Report_of_SAB_TWG_on_Verification_-_as_presented_to_SAB.pdf

⁴ Forensic science on trial. Proceedings of the Planetary presentations from the 20th ANZPSS International Symposium on the forensic sciences, Sydney 2010. *Australian Journal of Forensic Sciences*, 2011, 43:2-3, 89-103. <http://www.tandfonline.com/doi/10.4323/3>

⁵ C. Roux, F. Cugnon, O. Eklund, *Current Issues in Criminal Justice*, 2012, 24(1), 7-24. <http://www.austlii.edu.au/au/other/au-oi/journals/CJIC/vol12/16.pdf>

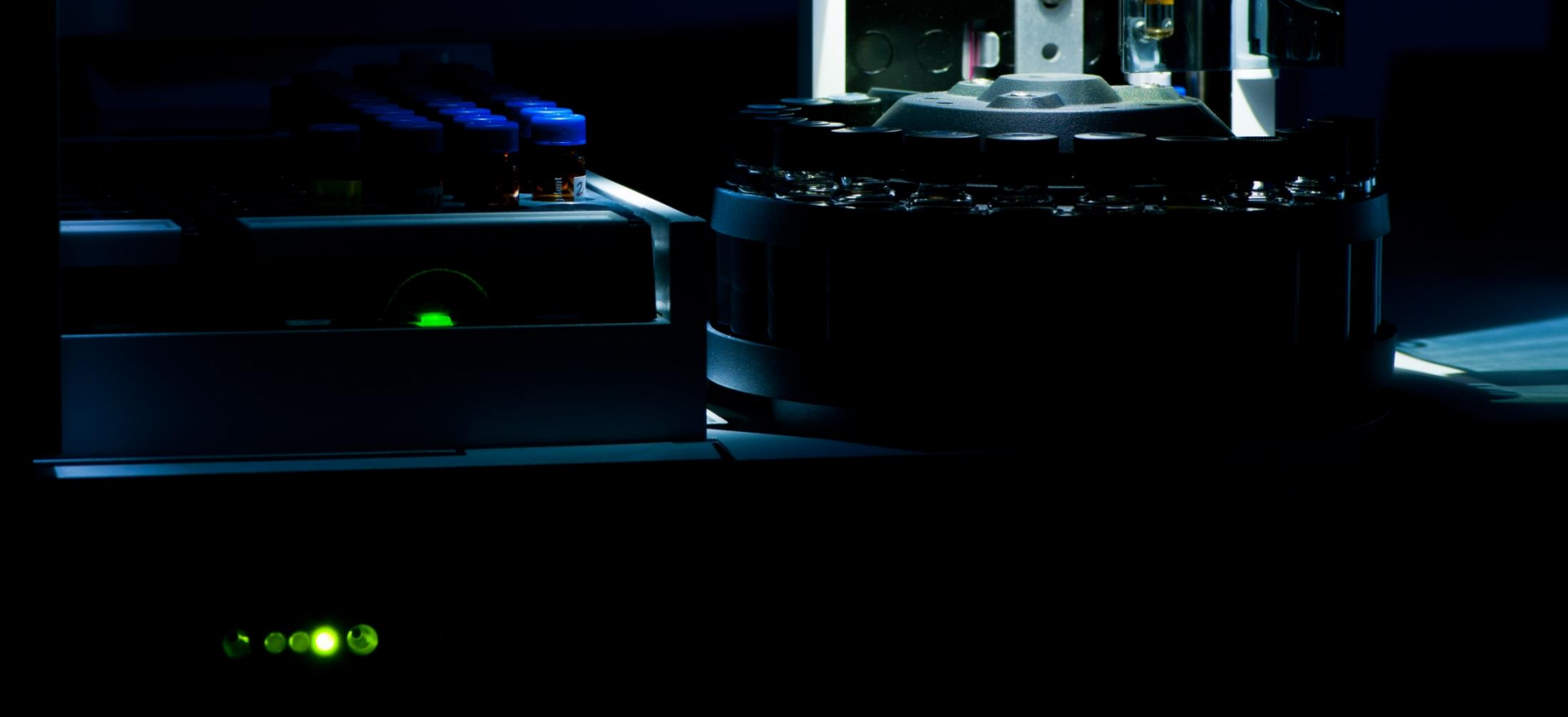








Investigative Studies





OPCW Scientific Advisory Board Briefing to States Parties

Friday 28 October 13:30 - 15:00

Ooms Room
(light lunch available from 13:00)

"WORKING TOGETHER FOR A WORLD FREE OF CHEMICAL WEAPONS"



The Future of SCIENTIFIC ADVICE TO THE UNITED NATIONS

A Summary Report to the Secretary-General
of the United Nations from the
SCIENTIFIC ADVISORY BOARD

September 2016



preparatory commission for the
comprehensive nuclear-test-ban
treaty organization

CURRENT TREATY STATUS

MEMBER STATES	183
TOTAL RATIFICATIONS	166
ANNEX 2 RATIFICATIONS	36
LATEST STATE SIGNATORY	Niue
LATEST RATIFYING STATE	Myanmar

INTERNATIONAL MONITORING SYSTEM STATUS

CERTIFIED STATIONS	283
INSTALLED	19
UNDER CONSTRUCTION	17
PLANNED	18

VIDEOS

26 TO 30 JUNE

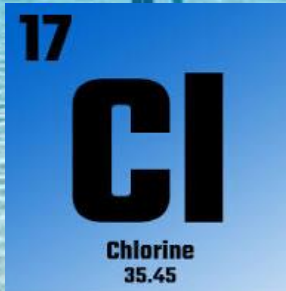
HOFBURG PALACE
VIENNA, AUSTRIA

MORE INFORMATION
COMING SOON

SCIENCE AND
TECHNOLOGY
2017



Peaceful uses of chemistry



A world free of chemical weapons

