



SCIENCE FOR DIPLOMATS

DATA ANALYTICS AND THE CWC: AN INTRODUCTION TO OCPF SITE SELECTION METHODOLOGY

Tuesday 6 October 2015

13:30 - 15:00

Ooms Room

Light lunch available at 13:00

$$A15 \text{ Value} = N^{1.5} \times M \times G \times P \times A$$



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Treaty Implementation

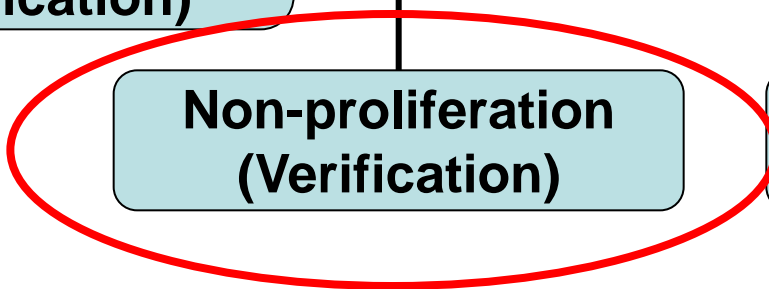
The Chemical Weapons Convention

Disarmament
(Destruction and
Verification)

Non-proliferation
(Verification)

Assistance and
Protection against CWs

International
Cooperation





The Many Faces of Chemical Production





EC-80/DG.7 (28 August 2015)

Action to implement the recommendations made by the SAB in its report on Verification

https://www.opcw.org/fileadmin/OPCW/SAB/en/ec80dg07_e_.pdf

Recommendation from the SAB	Implementation	Expected outcomes/results
<p>Recommendation 9: Not all facilities that fall under Part IX of the Verification Annex should be considered of the same relevance to the object and purpose of the Convention. The TWG recommends a practical approach for enhancing the utilisation of verification resources for OCPF declaration and on-site inspection processes.</p>	<ul style="list-style-type: none">• See (a), (b) and (c) below.	<ul style="list-style-type: none">• More effective verification.• Continued strong support from the global chemical industry for sound and proportionate implementation of the CWC.• Adaptation of the verification regime in line with developments in the chemical industry.
<p>Recommendation 9a: The OPCW policy-making organs should exempt certain OCPFs from declaration requirements.</p>	<ul style="list-style-type: none">• <u>Industry cluster</u>: Discussion based on Secretariat proposal.• <u>Executive Council</u>: Decision	
<p>Recommendation 9b: The Secretariat should reassess which product group codes are highly relevant to the Convention. Facilities declared with these product group codes should be subject to a higher probability to be selected for inspection.</p>	<ul style="list-style-type: none">• <u>Secretariat</u>: Review the performance of the site-selection methodology.• <u>Industry cluster</u>: Potential discussion depending on Secretariat review.	
<p>Recommendation 9c: For facilities in product group codes that are considered less relevant, the Secretariat should identify appropriate mechanisms to augment the declared information with validated and credible sources to allow for an assessment regarding the need for on-site inspection.</p>	<ul style="list-style-type: none">• <u>Secretariat</u>: The review and potential discussion on implementation of recommendation 9(b) will inform Secretariat guidance to States Parties and Secretariat action.• Action to implement recommendations 1, 2 and 3 will also be relevant.	



ORGANISATION FOR THE
PROHIBITION OF CHEMICAL WEAPONS

Working together for a world free of chemical weapons

Presentation by Murat Gulay



Science and Technology: Awareness and Communication



VOLUME 2 NUMBER 7

The OPCW Science & Technology Monitor

A sampling of Science & Technology Relevant to the Chemical Weapons Convention

1 June 2015

In This Issue

- Medical Countermeasures
- Chemical Forensics
- OPCW Research Projects Support Programme

Featured content

Medical Countermeasures

Image from [DuoDate™](#). Medical countermeasures at work in a synapse.

Chemical Forensics

Fingerprinting chemicals.

OPCW Research Projects Support Programme

Image from [PLoS One, 2013 Nov, 8\(11\)](#). Drug discovery research in OPCW Supported Research Projects

Welcome

Welcome to the OPCW Science and Technology Monitor, an occasional bulletin to provide updates of science and technology across a broad range relevant to the CWC. Past issues are available in the [Science and Technology section of the OPCW website](#).

Thanks to all of you who have taken our survey, we have not yet responded, the survey is still open. It only takes only six questions, all easier than the puzzle. All responses are anonymous. Your feedback is appreciated!

Today marks the 25th anniversary of the [Chemical Weapons Accord by the United States and the Soviet Union](#). This agreement, which marks one of many steps taken in the journey of chemical weapons. Steps taken in the past have been supported by the science of the chemical field that provides opportunities for collaborations and brings forth new developments, economic and technological benefits. [As we look forward to a wealth of new scientific fields, we look forward to a wealth of new evolving scientific field.](#)

The S&T Puzzle

We once again congratulate our colleagues who correctly recognized four of the top five spoken words of the Director-General in the eight statements delivered [from 22 January to 29 April 2015](#) (in case you were wondering, they missed "States"). The prize for best visualization of the words of the Director-General, however, goes unclaimed as no submissions (except our own, below) were received. Puzzle statistics now stand at: VER 4, OSP 2, OCS 1, INS 1 and CTBO 3.

For this edition of the puzzle, we look at the multiple uses of a cup of coffee. Can you tell us the identity and LD₅₀ (that's right, the median lethal dose) of the most abundant chemical in the cup; the [molarity \(M\)](#) of caffeine (molecule above); and the LD₅₀ of coffee itself? To keep this simple, assume this coffee is made with [Arabica beans](#) and brewed by a certified procedure (for

	Title	Date	
	S&T Monitor, February 2015 - 2	26/02/2015	
	S&T Monitor, February 2015 - 1	06/02/2015	
	S&T Monitor, January 2015	23/01/2015	
	S&T Monitor, December 2014 - 2	31/12/2014	
	S&T Monitor, December 2014 - 1	09/12/2014	
	S&T Monitor, November 2014	14/11/2014	
	S&T Monitor, October 2014 - 2	28/10/2014	
	S&T Monitor, October 2014 - 1	10/10/2014	
	S&T Monitor, September 2014 - 2	12/09/2014	
	S&T Monitor, September 2014 - 1	01/09/2014	

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* Indicates Response Required

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Science and Technology For Diplomats

Upcoming Events

- 2 December 2015 (On the margins of CSP-20, To be confirmed)
 - **S&T for Diplomats (7): Chemical Forensics**
 - An introduction to the field and its applications
- March 2016 (On the margins of EC-81, To be confirmed)
 - **S&T for Diplomats (8): Topic To Be Determined**
- **For more information on S&T from OPCW**

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