



Science, Technology and the Chemical Weapons Convention

15th Workshop for Diplomatic Personnel Involved in the Work of the OPCW

*OPCW Laboratory and Equipment Store
Rijswijk, The Netherlands
29 September 2015*

Jonathan E. Forman, Ph.D.
Science Policy Adviser
Organisation for the Prohibition of Chemical Weapons
jonathan.forman@opcw.org



Science and Technology at OPCW
www.opcw.org/special-sections/science-technology/





From The Convention

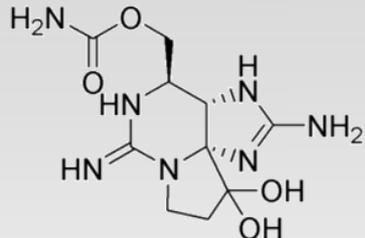
■ The Conference of States Parties Shall:

- **“Review scientific and technological developments that could affect the operation of this Convention and, in this context, direct the Director General to establish a Scientific Advisory Board to enable him, in the performance of his functions, to render specialized advice in areas of science and technology relevant to this Convention, to the Conference, the Executive Council or States Parties.”**

- *CWC Article VIII, Section B, paragraph 21(h)*



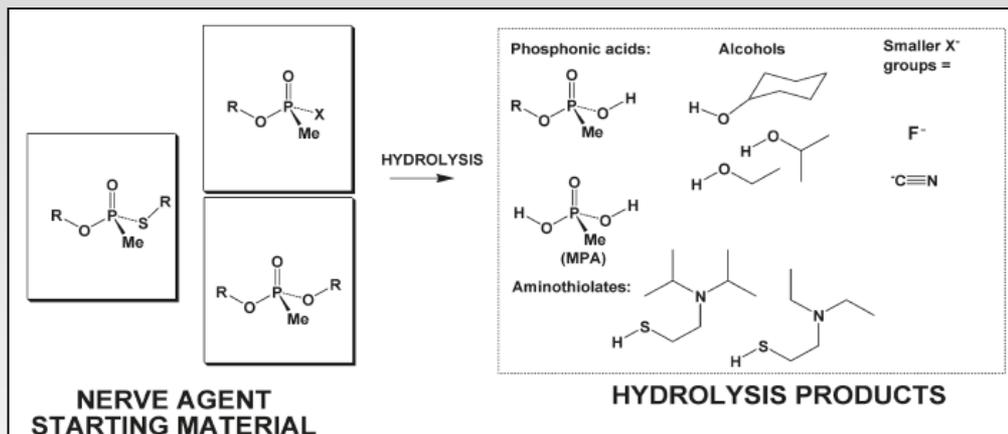
Science and Technology Underpin the CWC



Article II



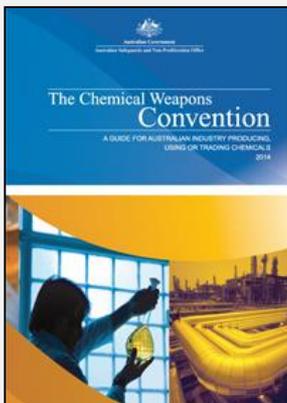
Article III



Articles IV and V



Article VI



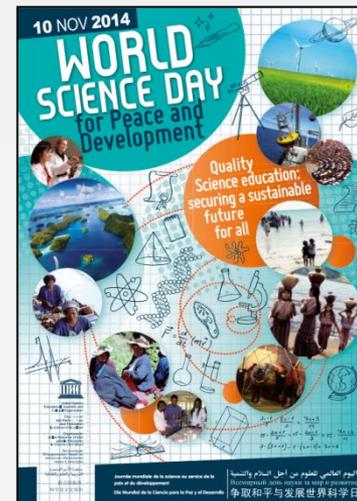
Article VII



Article VIII



Articles IX and X



Article XI

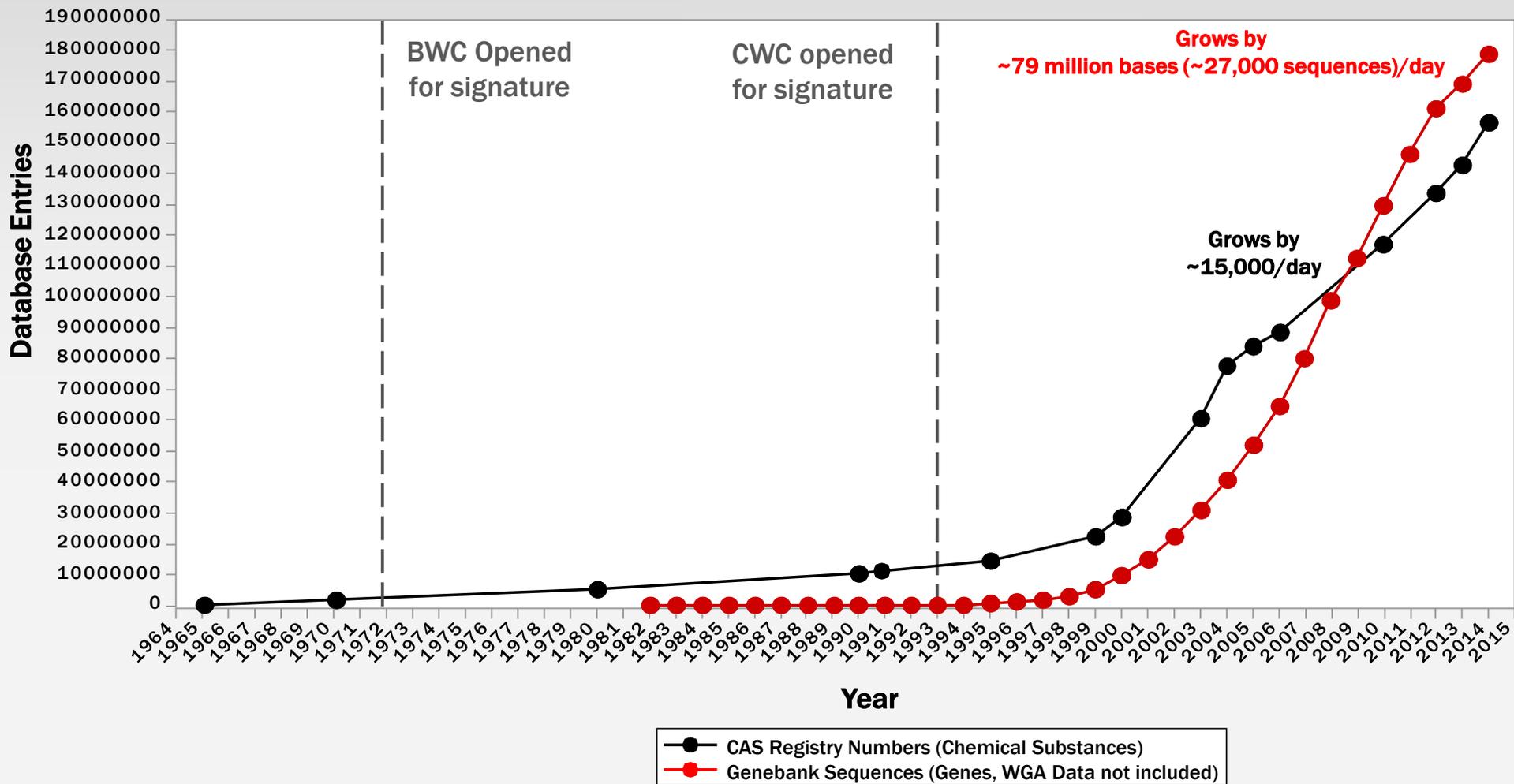


Open for Signature 1993 - Entry into Force 1997



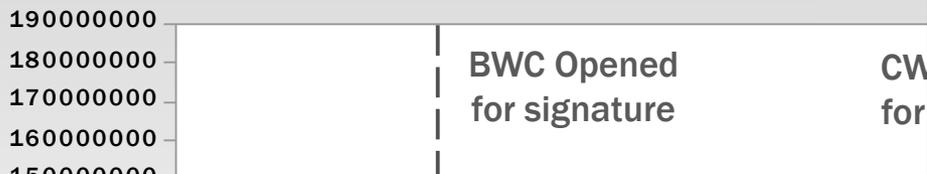


Meanwhile, in the world of Science...



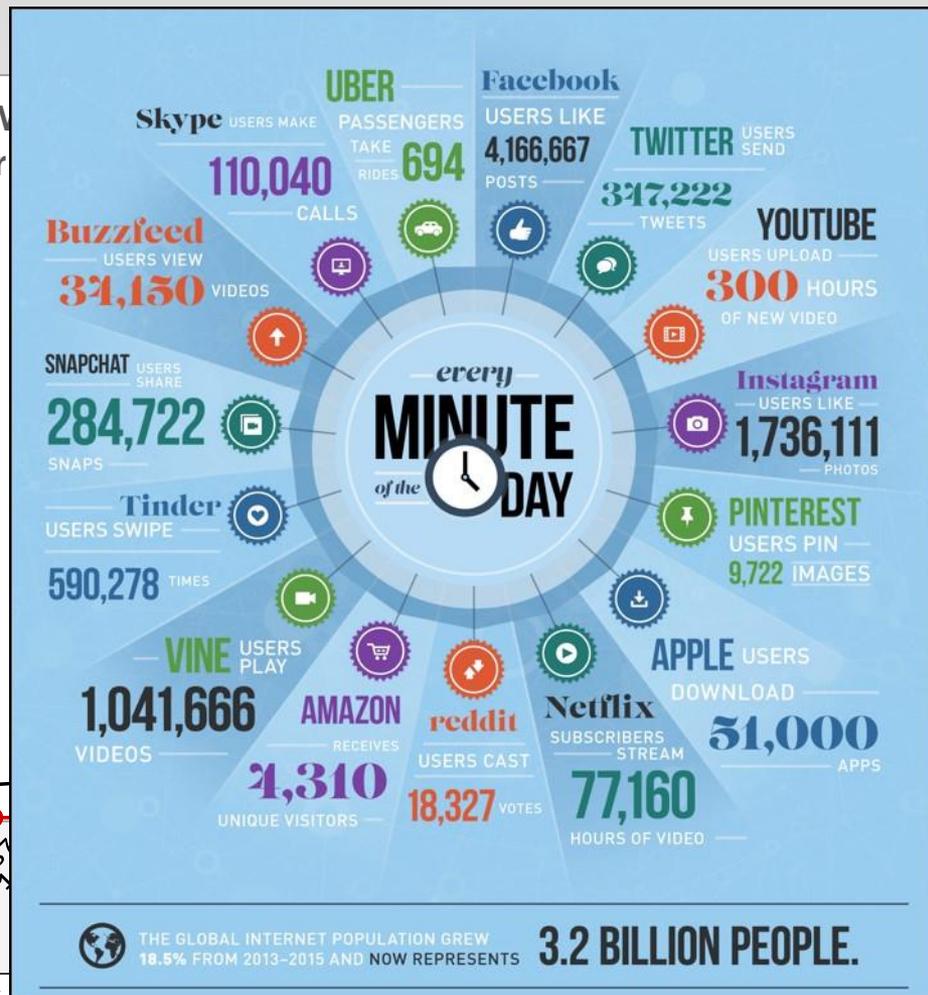
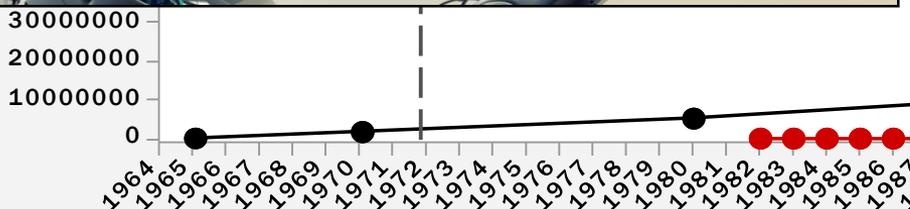


Meanwhile, in the world of Science...



Every day, we create 2.5 quintillion bytes of data — so much that 90% of the data in the world today has been created in the last two years alone.

-IBM

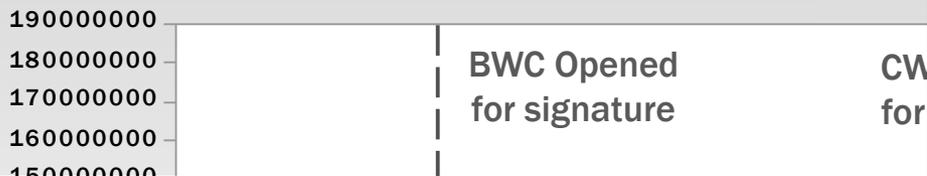


THE GLOBAL INTERNET POPULATION GREW 18.5% FROM 2013-2015 AND NOW REPRESENTS **3.2 BILLION PEOPLE.**

● CAS Registry Numbers (Chemical Substances)
 ● Genebank Sequences (Genes, WGA Data not included)

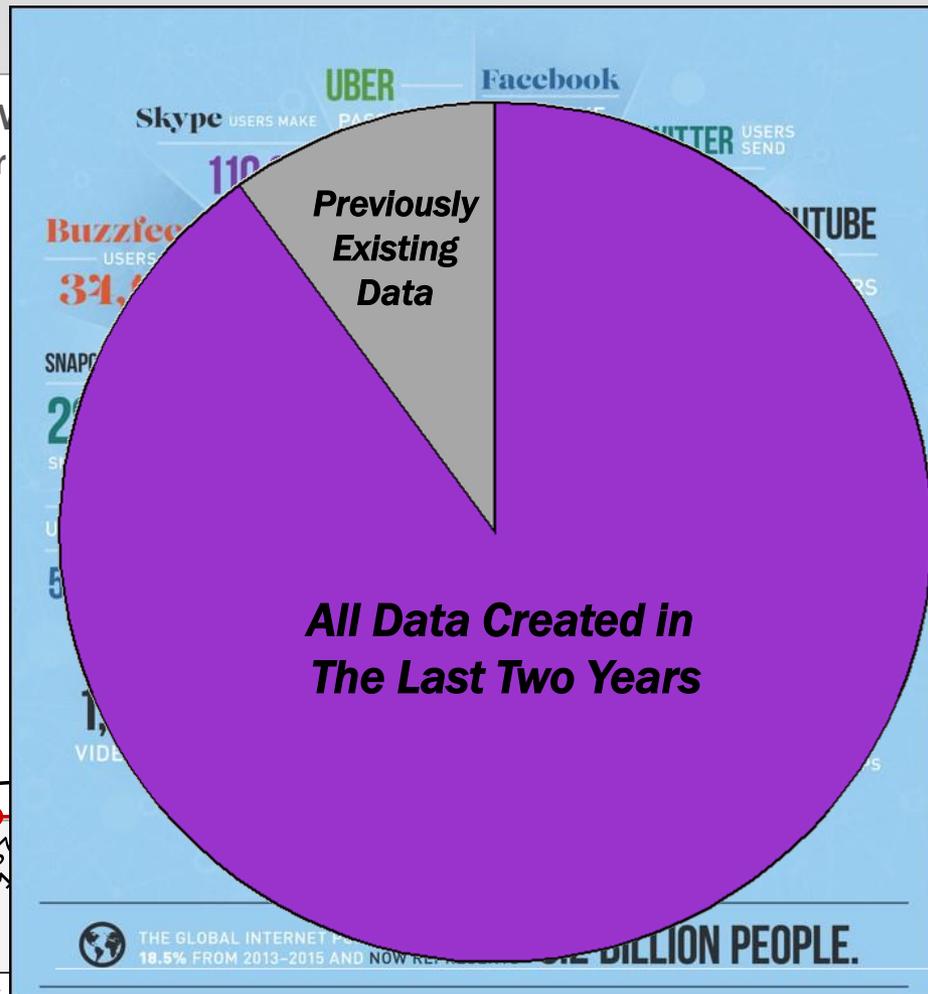
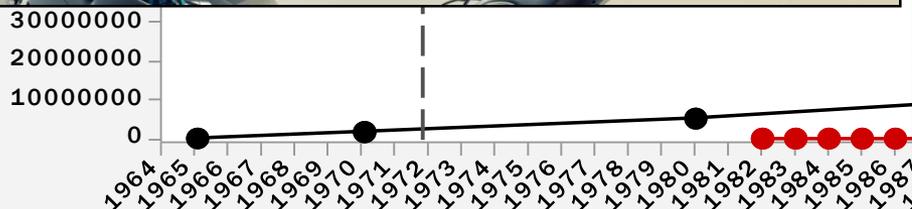


Meanwhile, in the world of Science...



Every day, we create 2.5 quintillion bytes of data — so much that 90% of the data in the world today has been created in the last two years alone.

-IBM

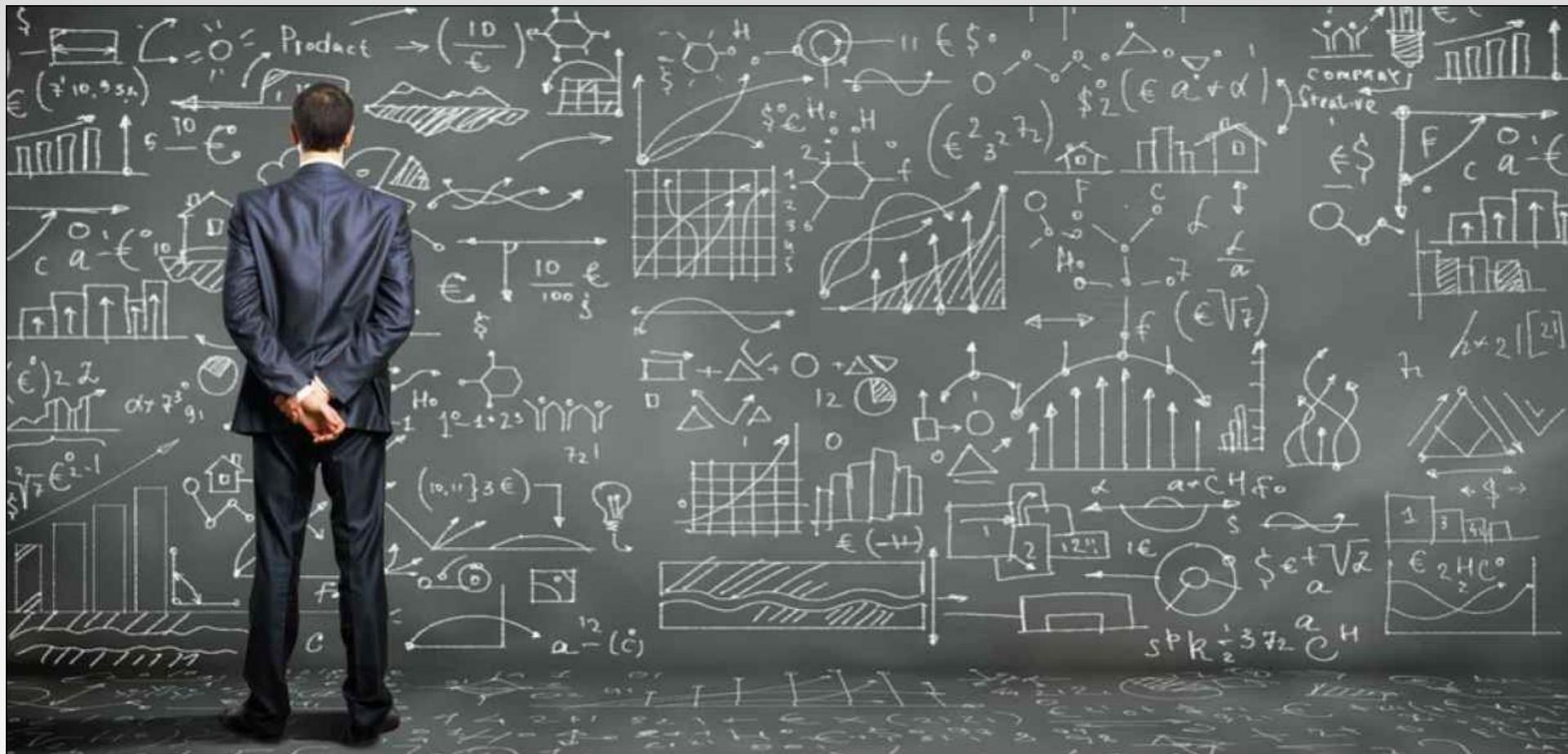


- CAS Registry Numbers (Chemical Substances)
- Genebank Sequences (Genes, WGA Data not included)

THE GLOBAL INTERNET POPULATION IS GROWING AT AN ALARMING RATE. 18.5% FROM 2013-2015 AND NOW REACHING OVER ONE BILLION PEOPLE.



What Does It Mean and How Applicable Is it?





OPCW Scientific Advisory Board



■ 25 Members, nominated by States Parties and appointed by Director-General

<https://www.opcw.org/special-sections/science-technology/scientific-advisory-board/>



More "Science for Diplomats" in the Conference Room

19th Conference of the States Parties



Science for Diplomats
The Science of the Bioeconomy

Science for Diplomats
Schedule 1 Chemicals in Industrial Processes

17 March 2015
13:30 - 15:00
Ooms Room



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

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



ORGANISATION FOR THE PROHIBITION
OF CHEMICAL WEAPONS

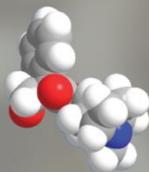
13
Friday
World For
Light
ORG
PROHIBITION OF

SCIENCE FOR DIPLOMATS

THE SCIENCE OF MEDICAL COUNTERMEASURES

Wednesday 8 July 2015
13:30 - 15:00
Ooms Room

Light lunch will be available at 13:00



ORGANISATION FOR THE PROHIBITION
OF CHEMICAL WEAPONS



WEAPONS

