

IWG



LNCV

*IWG – LNCV Biosecurity Workshop and Round Table*

***Global Networking to Promote Biosecurity  
and Limit Dual Use Risks  
The Science-Ethics-Law-Security Nexus***

12-13 November 2010  
Grand Hotel di Como  
Como, Italy

**AGENDA**

*Organized by*



International Working Group  
Landau Network-Centro Volta  
Como, Italy

*With the support of*



US Civilian Research  
and Development  
Foundation (CRDF)



International Science  
and Technology  
Centre (ISTC)



Department of Energy  
and Climate Change  
(DECC), UK



Italian Ministry of  
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*Under the  
patronage of*



National Research  
Council (CNR), Italy

# Outline

Over the last decade, the discourse on the promotion of biosecurity, the prevention of hostile applications of biosciences and the limitation of dual use risks posed by the life sciences and biotechnologies has developed considerably. Part of such a development is the recognition of the need to broaden the actors involved in biosecurity, both in terms of the range of stakeholders involved, but also in relation to geographical scope. Indeed, biosecurity is now a global challenge that doesn't focus solely on specific geographical areas of the world, but calls for global attention and coordination across a number of regions, many of which face different challenges and maintain differing priorities.

Moreover, biosecurity is inherently different from many other security or security-related challenges, the main reason being the dual use nature of much life science research, but also because of the significant societal benefits offered by bio-sciences. Neither the "security community", nor the "life science community", can deal with these challenges alone, rather engagement, exchange and networking between these two communities, along with other relevant stakeholders, will be required for success. In this context, the challenges and opportunities of the life sciences can be seen as forming a "nexus" which draws in a number of actors and interests and provides an intersection between science, ethics, law and security aspects.

The 2010 Como Workshop and Round Table organized by the International Working Group - Landau Network Centro Volta (IWG-LNCV) continues the IWG-LNCV tradition, which dates back to 1997, of discussing biosecurity and related issues. The 2010 event is intended to build upon the 2009 meeting, titled *"Biosecurity, Biosafety and Dual Use Risks. Trends, Challenges and Innovative Solutions"*, held in Villa Grumello on Lake Como on 13-14 November 2009. That event brought together an interdisciplinary collection of over 40 high-level experts and officials, acting in their personal capacity, from national governments, international organizations, the diplomatic community, academia and civil society.

The 2010 Workshop and Round Table, scheduled to be held on the 12-13 November 2010 in Grand Hotel di Como on the shores of Lake Como, will bring together an interdisciplinary community of actors, including individuals from the security, science and public health communities; but also lawyers, bioethicists, educators and environmental protection experts to address the challenges posed by the life sciences. It will address the role that global networking could play, paying particular attention to professional stakeholder networks to generate bottom up approaches to dealing with biosecurity and dual use. To achieve this, a number of thematic sessions comprised of speakers with a broad range of different expertise will focus on different aspects of the challenge related to biosecurity and dual use risks. Such sessions will include:

- Public health aspects, including preparedness and response and science for prevention and detection;
- Legal implementation aspects on the national and international levels;
- The role of bioethics in dual use;
- The role of environmental protection aspects;
- Collaborative education and awareness raising efforts.

Contemporary international cooperative programmes related to biosecurity, and initiatives related to awareness raising on biosecurity, will also be discussed; along with the cornerstone of efforts to prevent the malign use of the life sciences, the Biological and Toxin Weapons Convention.

# AGENDA

**November 11<sup>th</sup>, 2010**

19.30 *Welcome Cocktail and Dinner*

**November 12<sup>th</sup>, 2010**

9.00-9.10 *Opening*  
Chair: IWG-LNCV, Como, Italy

9.10-9.45 *Session I – Introduction: Global Stakeholder Networking on Biosecurity and Dual-use Policies: the Science-Ethics-Law-Security Nexus*  
*This introductory session will concentrate on the need for more integrated networking as a means of addressing the security issues related to life sciences and biotechnology. This session will look at both vertical coordination “from the individual to the international” and horizontal engagement between different actors in different fields. It will further seek to address the activities required to engender greater governance of life sciences through the nexus of international/national regulations, ethical norms on dual use, and freedom in scientific research.*  
Chair: **Maurizio Martellini**, Secretary General, Landau Network – Centro Volta, and IWG Executive Secretary, Como, Italy

**Global Stakeholder Networking**

**James Revill**, Research Fellow, University of Sussex, UK, and Landau Network-Centro Volta, Como, Italy

**ISTC and Global Engagement and Outreach Programmes**

**Waclaw Gudowski**, Deputy Executive Director, International Science and Technology Center, Moscow, Russia

**The InterAcademy Panel on International Issues**

**Jo Husbands**, Scholar/Senior Project Director, Board on Life Sciences, U.S. National Academy of Sciences, Washington DC, US

9.45-10.30 *Session II – National and International Governmental Initiatives on Interdisciplinary Biosecurity and on Dual-use*  
*This session will outline the status of contemporary national and multilateral initiatives intended to build stakeholder networking on biosecurity and dual-use risks prevention.*  
Chair: **Maurizio Martellini**, Secretary General, Landau Network – Centro Volta, and IWG Executive Secretary, Como, Italy

**Message from the Implementation Support Unit of the BTWC**

Presented by the Chair (Message from Richard Lennane, Head of the BTWC ISU, Geneva, Switzerland)

**European Commission Programmes on (Global) Interdisciplinary Networking and Engagement**

**Michael Thornton**, Institute for the Protection and Security of the Citizen (IPSC), European Commission Joint Research Centre, Ispra, Italy

**The US DoS Biosecurity Engagement Program (BEP)**

**Hillary Carter**, Biosecurity Engagement Program (BEP), Department of State, Washington DC, US

**On the Front Line of Biodefense: Biosafety, Biosecurity, and Biological Non Proliferation Activities Supported by the Office of the Assistant Secretary for Preparedness and Response**

**Dana Perkins**, Senior Science Advisor, Policy & Planning, Office of the Assistant Secretary for Preparedness and Response, U.S. Department of Health and Human Services, Washington DC, US

10.30-10.45 *Coffee Break*

10.45-12.00 *Session III – Science and Public Health Aspects*

*This session will focus on the scientific aspects of the prevention of hostile uses of life sciences and biotechnologies, but will further address science and technology for the purpose of outbreak detection, public health systems preparedness and response capabilities, and the engagement of scientific communities and networking experiences from the scientific field on biosecurity and dual-use risks.*

Chair: **Dana Perkins**, Senior Science Advisor, Policy & Planning, Office of the Assistant Secretary for Preparedness and Response, U.S. Department of Health and Human Services, Washington DC, US

**The Evolution of Biosecurity**

**Jennifer Gaudio**, Sandia National Laboratories, Albuquerque NM, US

**Overview of dual use control approaches at international and institutional levels**

**Philippe Stroot**, Executive Manager, Xibios Biosafety Consulting, Tournai, Belgium, and European Biosafety Association (EBSA)

12.00-13.15 *Session IV - Legal Implementation Challenges. Roundtable Interaction.*

*This session will focus on the formulation, implementation and enforcement of regulations and laws at the international and national levels for the prevention of, and the response to, the hostile exploitation of the life sciences and biotechnology. The session will thus discuss what models and success stories we can learn from, and how we can construct legislation designed to cope with the challenge of dual use risks without hampering science.*

Chair: **Ilja Pavone**, Institute of International Law Studies (ISGI), National Research Council, Rome, Italy

**Legal Aspects and the Spanish Case**

**Ángeles Cuadrado Ruiz**, Professor, Faculty of Law, University of Granada, Spain

**The Life Sciences, Biosecurity And Dual Use Research In Israel**

**An Overview (2004 - 2010)**

**David Friedman**, Associate Senior Researcher, Institute for National Security Studies, Tel Aviv, Israel

**A Civil Society Response To The Challenges Of Regulating Biosecurity**

**Scott Spence**, Senior Legal Officer, VERTIC, London, UK

13.15-14.15 *Lunch Break*

14.15-15.45 **Session V - The Role of Bioethics. Roundtable Interaction**

*This session will focus on the role of ethics, specifically bioethics, in addressing and preventing dual-use risks. Bioethics has only recently begun to incorporate topics such as the dual-use "dilemma", yet it could prove a useful component in informing and assisting scientist's in decision-making and, in turn engendering support and understanding for policy decisions related to biosecurity and dual use.*

Chair: **Jo Husbands**, Scholar/Senior Project Director, Board on Life Sciences, U.S. National Academy of Sciences, Washington DC, US

**Neuroethics And The Problem Of Dual-Use**

**Valentina Bartolucci**, Research Fellow, University of Bradford, UK

**Bioethics and Biosecurity for scientists: Report from Bradford**

**Judi Sture**, Head of Graduate School, Bradford Disarmament Research Centre, University of Bradford, UK

**The problem of dual use of scientific and technological knowledge and the education of students in science and engineering**

**Henk Zandvoort**, Associate Professor, Department of Engineering and Reflection, Technical University of Delft, Netherlands

15.45-16.00 *Coffee Break*

16.00-17.15 **Session VI - Biosecurity, Dual-use and Environmental Aspects. Roundtable Interaction.**

*This session will focus on biosecurity and dual use vis-a-vis safety and environmental protection, connected with the prevention of hostile uses of life sciences and biotechnologies, but also with broader challenges whose related policies and strategies can be fruitfully linked to biosecurity and dual-use prevention policies.*

Chair: **Daniela Candia**, Chair, College of the Directors of Bachelor and Master studies in Biology of the Italian Universities (CBUI) and Department of Biology, University of Milan, Italy

**Helena Freitas**, Professor of Ecology, Centre for Functional Ecology, Department of Life Sciences, University of Coimbra, Portugal

**Environment Protection Matters to Promoting Biosecurity and Limiting Dual-Use Dangers in the BTWC Context**

**Anupa Gupte**, Independent Multidisciplinary Expert, Mumbai, India

17.15-17.45 **General discussion and Adjournment**

Chair: IWG-LNCV, Como, Italy

20.00 *Ferry from Grand Hotel di Como (Tavernola Pier) to Como city centre*

20.15 **Social Dinner**

Ristorante Sociale, Como city centre

*Transportation back to the hotel is arranged via bus.*

## November 13<sup>th</sup>, 2010

9.00-9.15 *Summary and Spin-off from the first day*

9.15-11.00 **Session VII - Special Session on Education and Awareness Raising on Biosecurity and Dual Use Risks: Methodologies, Tools and Countries' Cases. Roundtable Interaction.**  
*This session will present initiatives pursued at global level vis-à-vis education and awareness raising related to biosecurity and dual use risks, but particularly those directed towards engagement of young scientists. The session will thus include a number of sub topics such as: Tertiary-level education activities, online teaching, university networking, capacity building, and tailoring material to the specific needs of different cultures and contexts.*  
**Chair: James Revill**, Research Fellow, Landau Network - Centro Volta, Como, Italy, and University of Sussex, UK

**Experience from a Biosecurity Module for Life Scientists in Jagiellonian University**  
**Krzysztof Guzik**, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland

**Promoting Sustainable Education and Awareness Raising on Biosecurity and Dual Use**  
**Giulio Mancini**, Program Officer, Landau Network-Centro Volta, Como, Italy

**Dual-Use Bioethics/Biosecurity Training: Resource and Programme**  
**Masamichi Minehata**, Post Doctoral Research Fellow, Bradford Disarmament Research Centre, Department of Peace Studies, University of Bradford, UK

**The further steps in biosafety and biosecurity educational programs implementation in Russia**  
**Sergey Netesov**, Vice Rector (Research), Novosibirsk State University, Russian Federation

**The Dual-Use Dilemma and the Responsibilities of Scientists in Pakistan**  
**Zabta K. Shinwari**, Chairman, Department of Biotechnology, Quaim-i-Azam University, Islamabad, Pakistan

11.00-11.15 *Coffee Break*

11.15-13.00 **Session VIII - Implementing an Effective Global Stakeholders Network. Roundtable Interaction**  
*This session will present a number of proposals and experiences useful to facilitate progress in vertical and horizontal networking as a vehicle to enhance the management of biosecurity and dual-use issues, supported through the active engagement of all interested actors. The role of networks as a means to move forward and facilitate progress at, and beyond, the 2011 Seventh Review Conference of the BTWC will also be discussed.*  
**Chair: Brian Rappert**, Sociology & Philosophy Department, School of Humanities & Social Sciences University of Exeter, UK

**Overview of Biosecurity and Dual-Use Management in AstraZeneca**  
**Gary Burns**, Biosafety Manager, AstraZeneca, Macclefields, UK

**The Engagement Role of the IFBA: 2011 The Year of Growing International Biosafety Communities**

**Brad Goble**, International Federation of Biosafety Associations, Winnipeg, Canada

**The Italian Code of Conduct for Biosecurity**

**Giulio Mancini**, Program Officer, Landau Network-Centro Volta, Como, Italy

**13.00-13.30**    *Conclusions and Adjournment.*  
Chair: IWG-LNCV, Como, Italy

**13.30**        *Final Lunch*