

## **CCW EXPERT MEETING**

### **LETHAL AUTONOMOUS WEAPON SYSTEMS**

#### **PROVISIONAL AGENDA**

This is the provisional agenda for the informal meeting of experts on lethal autonomous weapon systems (LAWS) to take place in Geneva 13<sup>th</sup> to 16<sup>th</sup> May in the framework of the Convention on Certain Conventional Weapons (CCW). The agenda may be subject to further changes.

**13 May 2014**

**10 am**

#### **General debate – Chair - France**

Opening

This session will allow States Parties to have a first general exchange of views.

The International Committee of the Red Cross will present the conclusions from its seminar on lethal autonomous weapon systems held in March this year.

**1 pm**

#### **Lunch Break**

**3 pm**

#### **Technical issues – part 1 – Friend of the Chair - Germany**

The main objective is to address the key issues of autonomous technology.

- What are the differences between autonomy and automaticity?
- What are the levels of autonomy and predictability in robotics?
- Which systems already exist? What are the next steps in robotic technology?

Kickoff presentations:

- **Dr. Raja Chatila**, *Centre National de la Recherche Scientifique, France - The concept of autonomy*
- **Mr. Paul Scharre**, *Center for a New American Security, United States of America - Existing systems and technologies: is there a trend towards increasing autonomy?*
- **Debate between Professor Ronald Arkin**, *Georgia Institute of Technology, United States of America* and **Professor Noel Sharkey**, *University of Sheffield, United Kingdom - The pros and cons of LAWS*

Interventions

**6 pm**

14 May 2014

10 am

**Technical issues – part 2 – Friend of the Chair - Germany**

Kickoff presentations:

- **Mr. Jean-Paul Laumond**, *Centre National de la Recherche Scientifique, France - Humanoid Robotics*
- **Mr. Hajime Wakuda**, *Director for Defense Industry, Aerospace and Defense Industry Division, Manufacturing Industries Bureau, Ministry of Economy, Trade and Industry, Japan - Robotics and applications*

Interventions

11:30 am

**Ethics and sociology – Friend of the Chair - Brazil**

The aim of this session is to discuss subjects such as:

- How the development of LAWS could impact on humans?
- Could robotics be used in conflicts? If so, what ethical questions does this raise?
- Are LAWS socially acceptable?
- What is the relationship between humans and robots?

This discussion could also be informed by the experience of civilian robotics.

Kickoff presentations:

- **Dr. Dominique Lambert**, *Université de Namur, Belgium - The ethics of robotics and the human-machine interrelation*
- **Professor Peter Asaro**, *International Committee for Robots Arms Control - Ethical questions raised by military applications of robotics*

Interventions

1 pm

**Lunch break**

3 pm

**Legal aspects – Part 1 on International Humanitarian Law – Chair - France**

This session will aim to address the applicability of international law, including international humanitarian law, to LAWS through the following questions:

- What are the implications for the principle of humanity and the Martens Clause?
- What could be the impact of LAWS on the status of combatants?
- How could the use of LAWS impact on the principles of proportionality, distinction and precaution (*Jus in bello*)?
- What are the existing civilian laws and norms applicable to LAWS?
- Is the development, acquisition and deployment of LAWS compatible with Article 36 of Additional Protocol I 1977?

Kickoff presentations:

- **Dr. Nils Melzer**, *Geneva Centre for Security Policy, Switzerland - Principle of humanity and Martens Clause*
- **Professor Marco Sassoli**, *Geneva Academy, Switzerland - Jus in bello*
- **Professor Matthew Waxman**, *Columbia Law University, United States of America - Implementation of Article 36*

Interventions.

**6 pm**

**15 May 2014**

**10 am**

**Legal aspects – Part 2 other areas of international law – Chair - France**

This session will aim to address the following questions:

- What could be the impact of LAWS on responsibility and accountability for violations of international law?
- What are the implications of LAWS on international human rights law?
- What is the impact of the development of LAWS on the right to use force (*Jus ad bellum*)?

Kickoff presentations:

- **Professor Thilo Marauhn**, *University of Giessen, Germany - Responsibility and accountability*
- **Professor Christof Heyns**, *University of Pretoria, South Africa - Human rights law issues*
- **Dr. Nils Melzer**, *Geneva Centre for Security Policy, Switzerland - Jus ad bellum*

Interventions

**1 pm**

**Lunch Break**

**3 pm**

**Operational and military aspects – Chair - France**

This session will focus on the relevance of LAWS in an operational context.

- What are the advantages and disadvantages of the use of LAWS?
- What are the limitations for militaries and the impact on the conduct of military operations?
- What is the impact of the development of LAWS on international security and stability, and on military doctrines?

Presentations:

- **Capt. (Ret.) Mark Hagerott**, *US Naval Academy, United States of America*
- **Dr. Heigo Sato**, *Takushoku University, Japan*
- **Col (Ret.) Wolfgang Richter**, *Germany*

Interventions

**6 pm**

**16 May 2014**

**10 am**

**Wrap up – Chair - France**

The wrap up will commence with the Chair and Friends of the Chair summarizing their respective sessions. The delegations will then provide feedback on the meeting and have the opportunity to express preliminary views on the way forward.

**12 am**

**Lunch Break**

**3 pm**

**Conclusion session**

The Chair will circulate a preliminary version of the report, which he is required to issue in accordance with the mandate of the Meeting of Experts.

Delegations will have an opportunity to make final statements.

**End of the meeting**