MEETING OF THE STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION AND STOCKPILING OF BACTERIOLOGICAL (BIOLOGICAL) AND TOXIN WEAPONS AND ON THEIR DESTRUCTION

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Third Meeting Geneva, 5-9 December 2005

Meeting of Experts Geneva, 13-24 June 2005

REPORT OF THE MEETING OF EXPERTS

Introduction

1. The Final Document of the Fifth Review Conference of the States Parties to the Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on their Destruction (BWC/CONF.V/17), in the section dealing with Decisions and Recommendations, contained the following decision:

"The Conference decided, by consensus, as follows:

(a) To hold three annual meetings of the States Parties of one week duration each year commencing in 2003 until the Sixth Review Conference, to be held not later than the end of 2006, to discuss, and promote common understanding and effective action on:

- i. the adoption of necessary national measures to implement the prohibitions set forth in the Convention, including the enactment of penal legislation;
- ii. national mechanisms to establish and maintain the security and oversight of pathogenic microorganisms and toxins;
- iii. enhancing international capabilities for responding to, investigating and mitigating the effects of cases of alleged use of biological or toxin weapons or suspicious outbreaks of disease;
- iv. strengthening and broadening national and international institutional efforts and existing mechanisms for the surveillance, detection, diagnosis and combating of infectious diseases affecting humans, animals, and plants;
- v. the content, promulgation, and adoption of codes of conduct for scientists.

(b) All meetings, both of experts and of States Parties, will reach any conclusions or results by consensus.

(c) Each meeting of the States Parties will be prepared by a two week meeting of experts. The topics for consideration at each annual meeting of States Parties will be as follows: items i and ii will be considered in 2003; items iii and iv in 2004; item v in 2005. The first meeting will be chaired by a representative of the Eastern Group, the second by a representative of the Group of Non-Aligned and Other States, and the third by a representative of the Western Group.

(d) The meetings of experts will prepare factual reports describing their work.

(e) The Sixth Review Conference will consider the work of these meetings and decide on any further action."

2. In accordance with the decision of the Fifth Review Conference, the 2003 Meeting of States Parties was convened in Geneva from 10 to 14 November 2003, and was preceded by a Meeting of Experts held in Geneva from 18 to 29 August 2003. The 2004 Meeting of States Parties was convened in Geneva from 6 to 10 December 2004, and was preceded by a Meeting of Experts held in Geneva from 19 to 30 July 2004. The 2004 Meeting of States Parties approved the nomination by the Western Group of Ambassador John Freeman of the United Kingdom as Chairman of the Meeting of Experts and Meeting of States Parties in 2005. The 2004 Meeting of States Parties decided that the 2005 Meeting of Experts would be held in Geneva from 13 to 24 June 2005, and that the 2005 Meeting of States Parties would be held in Geneva from 5 to 9 December 2005.¹

3. By resolution 59/110, adopted without a vote on 10 December 2004, the General Assembly, *inter alia*, requested the United Nations Secretary-General to continue to render the necessary assistance to the depositary Governments of the Convention and to provide such services as may be required for the implementation of the decisions and recommendations of the Review Conferences, including all necessary assistance to the annual meetings of the States Parties and the meetings of experts.

Organization of the Meeting of Experts

4. In accordance with the decisions of the Fifth Review Conference and the 2004 Meeting of States Parties, the 2005 Meeting of Experts was convened at the Palais des Nations in Geneva from 13 to 24 June 2005, under the Chairmanship of Ambassador John Freeman of the United Kingdom.

5. At its first meeting, the Meeting of Experts adopted its agenda (BWC/MSP/2005/MX/1) and programme of work (BWC/MSP/2005/MX/2) as proposed by the Chairman. The Chairman also drew the attention of delegations to four background papers prepared by the Secretariat (BWC/MSP/2005/MX/INF.1, /INF.2, /INF.3 and /INF.4).

¹ See BWC/MSP/2004/3.

6. At the same meeting, following a suggestion by the Chairman, the Meeting of Experts adopted as its rules of procedure, *mutatis mutandis*, the rules of procedure of the Fifth Review Conference, as contained in Annex II of the Final Document of the Review Conference (BWC/CONF.V/17).

7. Mr. Valère Mantels, Political Affairs Officer, United Nations Department for Disarmament Affairs, was in charge of the BWC issues in the Department for Disarmament Affairs. Mr. Richard Lennane, Political Affairs Officer, served as Secretary of the Meeting of Experts. Ms. Melissa Hersh and Mr. Piers Millett, Associate Political Officers, served in the Secretariat.

Participation at the Meeting of Experts

8. Eighty-two States Parties to the Convention participated in the Meeting of Experts as follows: Afghanistan, Algeria, Argentina, Australia, Austria, Azerbaijan, Bahrain, Bangladesh, Belgium, Benin, Bolivia, Brazil, Bulgaria, Cambodia, Canada, Chile, China, Colombia, Croatia, Cuba, Cyprus, Czech Republic, Denmark, Estonia, Ethiopia, Finland, France, Georgia, Germany, Greece, Guatemala, Holy See, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Italy, Japan, Jordan, Kenya, Kuwait, Latvia, Libyan Arab Jamahiriya, Lithuania, Luxembourg, Malaysia, Malta, Mauritius, Mexico, Morocco, Netherlands, New Zealand, Nicaragua, Nigeria, Norway, Pakistan, Peru, Philippines, Poland, Portugal, Qatar, Republic of Korea, Romania, Russian Federation, Saudi Arabia, Serbia and Montenegro, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Thailand, Turkey, Ukraine, United Kingdom of Great Britain and Northern Ireland, United States of America, Viet Nam and Yemen.

9. In addition, three States that had signed the Convention but had not yet ratified it participated in the Meeting of Experts without taking part in the making of decisions, as provided for in rule 44, paragraph 1 of the rules of procedure: Egypt, Madagascar, Syrian Arab Republic.

10. One state, Israel, neither Party nor Signatory to the Convention, participated in the Meeting of Experts as an observer, in accordance with rule 44, paragraph 2 (a).

11. The United Nations, including the United Nations Department for Disarmament Affairs (UNDDA), the United Nations Institute for Disarmament Research (UNIDIR) and the United Nations Monitoring, Verification and Inspection Commission (UNMOVIC), attended the Meeting of Experts in accordance with rule 44, paragraph 3.

12. The Food and Agriculture Organization of the United Nations (FAO), the International Centre for Genetic Engineering and Biotechnology (ICGEB), the International Committee of the Red Cross (ICRC), the Organisation for Economic Co-operation and Development (OECD), the Organization for the Prohibition of Chemical Weapons (OPCW), the United Nations Educational, Scientific and Cultural Organization (UNESCO), the World Health Organization (WHO), and the World Organization for Animal Health (OIE) were granted observer status to participate in the Meeting of Experts in accordance with rule 44, paragraph 4.

13. In addition, at the invitation of the Chairman, in recognition of the special nature of the topic under consideration at this Meeting and without creating a precedent, 23 scientific, professional, academic and industry bodies participated in informal exchanges in the open sessions as guests of the Meeting of Experts.

14. Sixteen non-governmental organizations and research institutes attended the Meeting of Experts under rule 44, paragraph 5.

15. A list of all participants in the Meeting of Experts is contained in document BWC/MSP/2005/MX/INF.6.

Work of the Meeting of Experts

16. The Meeting of Experts held two public meetings, on 13 and 24 June respectively, six open sessions, and seven working sessions. In accordance with the programme of work (BWC/MSP/2005/MX/2), on 13 June the Meeting of Experts heard introductory statements from 12 States Parties during the first open session, and presentations from seven international intergovernmental organizations and one State Party during the second open session. On 14 June, two open sessions were devoted to consideration of government science, during which the Meeting heard a total of 19 presentations and statements from States Parties and one presentation from a guest of the meeting. The three remaining open sessions, held between 15 and 20 June, were devoted to expert contributions, including from universities, funders, research, publishers, industry and professional bodies. During these sessions, the Meeting heard 10 presentations and statements from States Parties of the Meeting.

17. The three working sessions held between 15 and 20 June were devoted to discussion of issues relating to universities, funders, research, publishers, industry and professional bodies. During these sessions, the Meeting heard 10 presentations and statements from States Parties. The three working sessions held on 21 and 22 June were devoted to, respectively, issues relating to the content of codes of conduct; issues relating to the promulgation and adoption of codes of conduct; and other issues relating to codes of conduct. During these sessions, the Meeting heard 14 presentations and statements from States Parties.

18. The Chairman, under his own responsibility and initiative, prepared a paper listing considerations, lessons, perspectives, recommendations, conclusions and proposals drawn from the presentations, statements, working papers and interventions on the topics under discussion at the Meeting. The Meeting of Experts noted that this paper had no status; that it had not been discussed; that it could not be considered as being complete; that the appearance of any consideration, lesson, perspective, recommendation, conclusion or proposal in the paper did not in any way indicate or imply that States Parties agreed with it; and that it should not necessarily form a basis for future deliberations. The Meeting of Experts noted that it was the Chairman's view that the paper could assist delegations in their preparations for the Meeting of States Parties in December 2005 and in its consideration of how best to "discuss, and promote common understanding and effective action on" the topic in accordance with the decision of the Fifth Review Conference.

19. The paper prepared by the Chairman is attached as Annex I to this Report.

20. In the course of its work, the Meeting of Experts was able to draw on a number of working papers submitted by States Parties, as well as on statements and presentations made by States Parties, Observer Organizations and guests of the Meeting, which were circulated in the Meeting.

Documentation

21. A list of official documents of the Meeting of Experts, including the working papers submitted by States Parties, is contained in Annex II to this Report. All documents on this list are available on the United Nations Official Document System (ODS), accessible on the internet at http://documents.un.org.

Conclusion of the Meeting of Experts

22. At its closing meeting on 24 June 2005, the Meeting of Experts noted that the Chairman would prepare the provisional agenda and programme of work for approval and adoption at the Meeting of States Parties to be held from 5 to 9 December 2005.

23. At the same meeting, the Meeting of Experts adopted its Report by consensus, as contained in document BWC/MSP/2005/MX/CRP.1, as orally amended, to be issued as document BWC/MSP/2005/MX/3.

Annex I

CONSIDERATIONS, LESSONS, PERSPECTIVES, RECOMMENDATIONS, CONCLUSIONS AND PROPOSALS DRAWN FROM THE PRESENTATIONS, STATEMENTS, WORKING PAPERS AND INTERVENTIONS ON THE TOPIC UNDER DISCUSSION AT THE MEETING

The following tables relating to agenda item 5 (Consideration of the content, promulgation, and adoption of codes of conduct for scientists) were prepared by the Chairman.

G	
Source	Text
United States	Potential benefits (include)
Pres 20/6 PM	Increased Public Confidence through better Accountability
	Trigger to Streamline Policies and Procedures
	Better Awareness of the Dual-use Applications of Science
	Improved Public Communications
United States Pres 20/6 PM	Key benefit of a code would be to create a value-driven social norm
Japan Pres 20/6 AM	(Beneficial)effects (derived from the) coding process (include) To raise public awareness of this issue
	To encourage active discussion on how to strike the right balance between healthy development of science and preventing security risk
	To help to reduce the distance between scientists and the general public (building sense of trust for scientists)
	To build the public's sense of reassurance that a certain mechanism is being prepared to prevent science abuse
Australia	Benefits arising from incorporating environmental values into codes of
Pres 21/6 AM	conduct (include)
	encouragement to scientists to disclose discoveries of potentially harmful effects of their research
	codes of conduct pay heed to environmental issues and incorporate appropriate risk management or precautionary strategies
	structures are more likely to be created that assist in preventing intentional or unintentional release of dangerous materials
	Codes of conduct could implicitly or explicitly take into account the impact of research on non-human species, again reflecting the broadening of environmental values to incorporate both human and non- anthropocentric concerns
	A broadening of methods to secure compliance - from those of regulation and sanctions to one trust
	Intrinsic or actual rewards of public trust in scientists (e.g. greater public support for funding research)
	The value of a relationship between the community and scientists based on trust

(NOTE: "Pres" = Presentation; "Stat" = Statement; "Int" = Intervention)

United States	Analysis of Representative
Pres 14/6 AM	Codes of Conduct
	• Provide an overview of trends in the development of codes
	• Identify common and distinguishing features among different codes
	• Identify factors that may influence a code's utility or success
United States	Codes can create a culture of responsibility and accountability and can train
Pres 14/6 PM	the current and future scientific community in best practices.
Republic of	Codes of Conduct/Code of Ethics
Korea WP.33	 Recognition of individual responsibility, and biosafety and biosecurity aspects are core elements for codes of conducts/codes of ethics. Codes should be evolving instruments that can be adjusted on a continual basis in their application and interpretation reflecting international security situations and development in life sciences and biotechnology.
	 Codes do not provide a complete solution for countering bioproliferation and bioterrorism. They can contribute to achieving such objectives only in conjunction with other measures. Widespread adoption of codes of conduct/codes of ethics may serve as a basis for best practices that government agencies, university labs and institutions can take into consideration when they update their instruments and procedures.

Malaysia	The establishment of an international code of conduct for those engaged in
Stat 13/6 AM	the life sciences would certainly make a significant and effective contribution
	in combating the present and future security threats of biological weapons
	and bio-terrorism
Nigeria	There is need to establish an international code of conduct for those engaged
Stat 13/6 PM	in life sciences as part of efforts to prevent present and future threats from
	biological weapons and bioterrorism
Russia	introduction of ethical standards of conduct for scientists could turn out to
Pres 14/6 AM	be an effective auxiliary measures in terms of BTWC compliance.
	Meanwhile the task of strengthening the Convention through the
	development of a legally binding verification Protocol remains relevant
International	Codes of conduct for scientists are important for setting general standards of
Union of	acceptable scientific behaviour. Alone however they will not deter states or
Biochemistry	individuals prepared to carry out bioterrorist attacks and it is therefore
and Molecular	important to restrict access to potential bioterrorism agents.
Biology	
(IUBMB)	
Pres 15/6 AM	
Cuba	need to have a set of ethical principles which are educational, or
Stat 16/6 AM	precautionary, or philosophical, which show the ethical dimension and which
	should be present in all aspects of biological sciences
United States	Codes of conduct are both awareness raising and useful for establishing
Int 16/6 PM	norms

Ianan	The primary and direct objective of codes (is) to reduce the risk of
Japan Pres 21/6 AM	sciences causing negative effects on human beings and society through
FICS 21/0 AIVI	
	establishing specific rules, principles of guidelines as written documents that
	scientists should respect
Australia	Codes of conduct provide scientists with an opportunity to (re)gain public
Pres 21/6 AM	trust
Germany	A Code of Conduct for the Life Sciences could represent an effective
WP.12	element in preventing the hostile use of biological agents, if it is designed to
	promote awareness of the complex dual use dilemma and at the same time
	pro-actively obligate the research scientist to engage in reflective activities
	such as risk assessments and consideration of alternative approaches during
	the research process.
International	(Codes of conduct) should provide the essential ethical framework for a Code
Centre for	to assure that the benefits of the most powerful life sciences are not utilised
Genetic	for spreading disease or other harmful outcomes towards human, animal and
Engineering	plant welfare
and	r · · · · · · · · · · · · · · · ·
Biotechnology	
(ICGEB)	
Pres 13/6 PM	
Cuba	ensure a more transparent functioning of investigations being carried out
Int 20/6 AM	by scientists it is important to ensure the global dimension of this
	discussion and, in this respect, codes of conduct can play a very important
	role
Japan	Significance of Codes of Conduct (includes)
Pres 21/6 AM	To ensure scientists realize the potential risks inherent in their activities
11C5 21/0 Alvi	To raise scientists' awareness of their ethical and social responsibility
	To help scientists understand the national and international rules, regulations
	and frameworks
	To ensure biosafety and biosecurity
	To prevent dual-use research results from being abused by criminals and
	terrorists
China	code of conduct or ethic regulations should be adopted and implemented to
Pres 14/6 AM	educate, supervise and regulate scientists' behavior to prevent the
	accomplishments in their research from being abused or misused intended or
	unintended. Thus the beneficial integration between discipline and self-
	discipline could be realized.
China	code of conduct or ethic regulations should be adopted and implemented to
WP.20	educate, supervise and regulate scientists' behavior to prevent the
	accomplishments in their research from being abused or misused intended or
	unintended. Thus the beneficial integration between discipline and self-
	discipline could be realized.
Canada	Codes of Conduct:
Pres 22/6 AM	• can act as a warning signal, indicating that while an activity can still
	proceed, nevertheless one must proceed, nevertheless one must proceed
	with the utmost caution;
	• can also indicate the boundary between that which is permitted and
	prohibited under legislation
	F

Canada	Codes can provide warnings in a number of areas not explicitly covered by
Pres 22/6 AM	legislation including:
	Careless transfers of Intangible Technology
	• Work where risks outweigh benefits
	Compromising professional integrity through:
	- Use of false data
	- Conflicts of interest
	- Lack of due diligence
United States	Why a Code of Conduct for Dual Use Research?
Pres 14/6 AM	• Government cannot oversee all scientists and experiments across the
	nation
	• Offers greatest opportunity for improving security of research at the level
	of individual scientists
	-Increases understanding of biosecurity
	-Persistent reminder of moral and ethical responsibilities
	-Creates a "culture of responsibility and accountability
	• Sets professional standards that may have legal implications
	sous protossional standards that may have regar implications
Russia	codes of conduct for biologists, should the decision to elaborate them to be
Pres 14/6 AM	adopted, have to be worked out on a multilateral basis at meetings which
1105 14/07 111	have to be initiated in the framework of the BTWC.
Nigeria	There is need to draw up (a) national/ international code of conduct for those
Stat 15/6 PM	engaged in life sciences as part of efforts to minimize present and future
	threats from biological weapons and bioterrorism.
Cuba	it is necessary to recognise that the most appropriate body to ensure the
Int 20/6 AM	provisions of activities that do not serve peaceful purposes is indeed with the
$1111 \ 20/0 \ \text{AW}$	
Ch	Biological Weapons Convention
Cuba	(There is a) need to carry out a dialogue at the national level to adopt
Int 20/6 AM	measures that would contribute to our fight against the ill use of biological
	agents this is a dialogue that (was) within the framework of the
	Biological Weapons Convention compliance protocol and include(d)
T T 1 / 1	various procedures that are quite useful
United	Further consideration would be needed to determine how best to introduce
Kingdom	BTWC issues and responsibilities into education.
WP.16	
Japan	Should consider codes of conduct in the context of the Biological Weapons
Int 15/6 PM	Convention, for instance Article IV
Algeria	the elaboration of these codes should be based on the norms established by
Stat 13/6 AM	the Convention and should be consistent with the legislative and regulatory
	framework adopted by the States Party
United States	A code would extend responsibility for helping implement the provisions of
Pres 20/6 PM	BWC to the level of individual scientists
Indonesia	capacity building is an important element in the empowerment of
WP.24	bioethics and of codes of conduct for scientists in order to support the
	national implementation of BTWC

Center for	Codes of Conduct that are built upon strong bioethical principles are critical
Deterrence of	for:
Biowarfare and	Promoting compliance with the provisions of the Biological and Toxin
Bioterrorism	Weapons Convention
(CDBB)	Helping to protect the life sciences against misuse by terrorists
Pres 20/6 AM	Enhancing national and global security
Italy	Scientists should be aware that biological agents and toxins that are capable
WP.34	of causing temporary or permanent damage, harm or deaths by humans,
	animals, plants, materials of any kind or the environment are permitted only
	for protective or other peaceful purposes
Italy	Scientists should be aware that the design, construction or possession, for any
WP.34	purpose, of delivery mechanisms designed to use biological agents or toxins
	for hostile purposes or in armed conflict is prohibited by the Biological and
	Toxin Weapons Convention. There is no exemption for protective purposes

Malaysia	There is a lack of a formal code for scientists in the biomedical and biological
Pres 14/6 PM	scientists
Malaysia Pres 14/6 PM	Those that conduct, fund, administer and regulate biosciences and biomedicine have an ethical, social responsibility and obligation to actively deliberate measures necessary to minimize risk that their work could be employed for hostile ends
American	Risks of some research may warrant regulatory oversight physician-
Medical	researchers should work with key stakeholders to promulgate global standards
Association	for research governance
(AMA)	
Pres 15/6 AM	
International	The challenge is to manage the risks
Council for the	6 6
Life Sciences	
(ICLS)	
Pres 15/6 PM	
Canada Int 15/6 PM	Guidance is required to prevent a conflict between: Senior, tenured scientific staff and their post-doctoral researchers; The concept of 'publish or perish' and security requirements; and Research funding and ethics.
Association of	International oversight will be very difficult
the British	
Pharmaceutical	
Industry	
(ABPI)	
Pres 16/6 AM	
Cuba	good intentions cannot be used to justify negligence and for allowing the
Stat 16/6 AM	non-peaceful use of results of scientific work
Poland	Bills of law, biosafety regulations in the labs, etc., are not ethical rules
Pres 16/6 PM	themselves but as other human activities are subjected to moral judgement
South Africa Int 16/6 PM	Legal controls remain the most important element

The Royal	A possible set of minimum safety requirements are described in the WHO
Society	laboratory biosafety manual (WHO 2004). International harmonisation would
Pres 20/6 AM	also make it harder for a scientist to undertake an unsafe activity by simply
	moving from one country to another.
World Medical	Writing a code (the) key remains getting 'buy-in'
Association	
(WMA)	
Pres 20/6 AM	
United States	Provide clear evidence that there is a need/ problem that a code of ethics
Pres 20/6 PM	could help solve
United States	Demonstrate the benefits derived from formulating and adopting a code
Pres 20/6 PM	
United States	Need further discussion regarding impact of code on stakeholders
Pres 20/6 PM	
Japan	It is possible and meaningful for relevant international organizations to
Pres 21/6 AM	develop examples of codes e.g. international ethical guidelines
Iran	Ethical and responsible behavior by scientists complements States Parties'
Pres 21/6 AM	national obligations towards fostering international security
Iran	any code as devised by States shall ultimately be applied to their subjects, it
Pres 21/6 AM	remains the prerogative to States Parties to decide on the content,
	promulgation and adoption of codes. However, the development and adoption
	of such codes of conduct could be effective and useful, when complemented
т	with the involvement and assistance of national scientific community
Iran	the close linkage and relationship of different branches of bio sciences
Pres 21/6 AM	have made clear the need for the States to review their codes applicable in
Canada	different areas of relevant activities
Pres 21/6 AM	Compelling need (for action) from the scientific communities and public
Canada	Cannot legislate ethics (it is) descriptive not prescriptive
Pres 21/6 AM	Califiot registate etitles (it is) descriptive not prescriptive
Australia	Environmental values reflect fundamental shifts in social values. Capturing
Pres 21/6 AM	some of these shifts in values in codes of conduct could render the codes
	much more relevant to scientists
Argentina	the relationship between ethical codes for science and, for example,
WP.1	educational strategies and laws are relevant
Germany	It is necessary to control exchange of material, which includes pathogens of
WP.14	high-pathogenic potency. This is especially true for the methods of
	weaponization. A quick and unbureaucratic exchange of material across
	borders, however, is still necessary.
Germany	An international framework, probably under the umbrella of the UN, should
WP.14	develop regulations for activities in the field of infectious agents research
	including biosafety and biosecurity.
Russia	A professional community needs to solve its ethic problems independently by
WP.18	introducing restrictions based on law before they are introduced by the
	bureaucracy through a rigorous regulatory system
Argentina	avoid elaborating on general restrictions that unfairly restrict or limit
Int 14/6 AM	scientific work and biotechnology development in an indiscriminate manner.

Delessie	
Bulgaria	we need all national and international institutions, organizations, medical
Stat 14/6 AM	universities and etc. involved in life sciences research and manufacturing
	activities, supported strongly by the governments, to combine their efforts and
	to reach by consensus reasonable acceptable for all of us codes of conduct for
A monitorn	people working in this field.
American	Establishing an ethical climate for research cannot be imposed by external
Association for	regulation; it must be fostered from within the professional community
the	
Advancement	
of Science	
(AAAS)	
Pres 20/6 PM	
Australia	Well established values and principles from medical research relating to
Stat 15/6 PM	human health and safety and animal welfare also apply to GMOs
Japan	Suspension of the publication of research results should be considered only in
Pres 21/6 AM	cases (where):
	• The security risk is clear and present
	(it is) accompanied by fully convincing reasons
China	important to strengthen the adoption and implementation of code of
Pres 15/6 PM	conduct in educational community, conducive to helping scientists to devote
	themselves to human peace and progress from their student hood, and
	implementing code of conduct in a benign.
China	guidelines also prescribe concrete punishment mechanisms, punishing
Pres 15/6 PM	those behaviours in violation of scientific ethics, hence realizing the
	integration of discipline and self-discipline.
Libya	Member States have got to act in perfect transparency
Int 21/6 PM	
Libya	it is also necessary for fruitful cooperation to exist for defensive purposes
Int 21/6 PM	and for warding off danger amongst all Members.
Libya	it could also be necessary for a protocol to be devised in order to strengthen
Int 21/6 PM	the Convention and it could be also that we could reach a code of conduct,
	which is the focus of our discussions
Argentina	(On the international level) measures intended to promote responsible, secure
Stat 22/6 AM	and appropriate science to achieve humanitarian ends can nonetheless
	produce results that undermine the equity, the right of all peoples to health
	and well-being, if their implementation divides countries between those who
	can and those who cannot fund the norms of security and the necessary
	conditions of work
Canada	Codes of Conduct, Codes of Practice and Legislation can all be seen to play a
Pres 22/6 AM	complimentary role in guiding the "traffic" of scientific research and
	behaviour
Canada	Creating codes of conduct and explaining their contents can make legislative
Pres 22/6 AM	provisions easier to comprehend
Canada	The warning function of codes can act as an indicator of where legislative
Pres 22/6 AM	restrictions begin, and enables researchers/scientists to better grasp the
	implications of the "gray grass" inherent in their research
	implications of the "grey areas" inherent in their research
Pakistan	Codes should be used as evolving benchmarks with targeting precision and

Italy	Secrecy in biodefense programs, in general, causes suspicions and should be
WP.34	avoided as much as possible
Italy	Scientists should be aware that weaponisation of active biological agents for
WP.34	defensive purposes violates the spirit of the BWC and should be avoided.
	Aerosolisation or other dissemination of active biological agents should be
	performed only in confined and small-scale environments and only for
	purposes of detection, prophylaxis or medical treatment
Italy	Life scientists must be constantly aware of the fact that the extraordinary
WP.34	opportunities made available by the knowledge and technologies recently
	developed or foreseeable in the near future, may have dual use effects

Indonesia	Review and adapt ethics in line with the development of science and
Pres 14/6 PM	technology, particularly in the field of the life sciences
AAAS	a code should be viewed as a 'living document' subject to review and
Pres 20/6 PM	modification over time as knowledge, conditions, or perspectives change.
	There should be a process in place for evaluating the effectiveness of any code,
	especially as it relates to the attitudes and behaviours it is intended to influence
United States	Code should be assessed periodically and revised as necessary
Pres 20/6 PM	
Canada	codes, like legislation, have to be treated as living documents with the
WP.6	flexibility to respond to changing circumstances as required.
United States	need something self-enforcing rather than imposed. This is not something
Int 22/6 AM	that we believe we are going to be able to look at in the short time frame. To
	generate the cultural awareness we need to get the generational change of
	having that becoming a way of life

Japan	The improvement of the sense of ethics of the researcher is necessary to
Pres 14/6 PM	prevent the intentional action. The following matters are necessary for the
	purpose.
	The noble idea of the organization
	The definition of the research purpose
	The feeling of the social responsibility
	The regulation by the law
	The education to deny biological weapons
Nuclear	(It is important to:) Increase awareness, understanding and education; Create
Threat	institutional culture of ethos and responsibility; Engage individual scientists
Initiative	and institutions in self-governance measures; Need innovative strategies for
(NTI)	oversight and responsible stewardship; (and) Create framework for
Pres 15/6 AM	harmonization of national and international rules, regulations, agreements and
	laws.
Germany	To minimize the risk of 'dual use' (activities, efforts could include:)
Pres 15/6 AM	Careful education of students
	Offensive and special training of graduate students and postdocs
	Achievement of generally accepted guidelines
	Codes of conduct
	Self control of science and scientists (local, national and global level)

AAAS Pres 20/6 PM	The first step in developing a code of conduct is to define the core values the
Pies 20/0 Pivi	code is intended to promote If there is no agreement on the core values that should underlie dual-use research in biology, it will be very difficult to know
	whether one is travelling in the desired direction for researchers the core
	values must make sense in light of their real-world experiences if they are to
	believe in and live by them Any attempt to forge a set of core values
	inconsistent with the values of the larger society will inevitable fuel public
	anxiety and lead others to question the ability and willingness of researchers to
	self-regulate themselves
United States	Need to provide sufficient details about scope, approach, and implementation
Pres 20/6 PM	of a code to enable realistic estimates of costs
United States	Key components of code development process include:
Pres 20/6 PM	Defining scope and goals of code
	Stakeholder communication and education
	Public communication and education
	• Developing institutions and infrastructure to support and maintain code
Canada	A code in the biodefense context (should)
Pres 21/6 AM	• attach (an) ethical review to a local group with related duties
	• (utilise a) national oversight group attached to a national body of similar
	purpose
	• (be) accomplished under a national code of ethics and conduct - voluntary
	not legislated
United	Questions (to facilitate the consideration of codes)
Nations	What kind of code would be feasible
Educational,	• The contents, scope, focus and character
Scientific and Cultural	Consensus building
Organization	Political support
(UNESCO)	Strategies of implementation
Pres 13/6 PM	
AAAS	very basic description(s) of various code functions (include as an)
Pres 20/6 PM	Enabling document
	Public evaluation
	Professional socialization
	Public trust
	• Deterrent
	Support system
	Adjudication
Argentina	The formulation and adoption of codes of conduct for scientists and institutions
Stat 22/6 AM	must take into account and harmonize four levels of conceptual analysis,
	ethical intervention and positive action

Argentina Stat 22/6 AM	(Guidelines for codes for scientific institutions) should create conditions that are favourable for the integrity of research, transmit to researchers coming into working life the values and principles for ethical conduct, and ensure conditions of biosecurity and apply codes of practice that adhere to norms fixed at the national and international levels; also permit public investigations both of laboratories and of projects and ensure that the inflow of all biological material is undertaken in keeping with local, regional and international legislation
Australia	There should be three layers of codes: at the top, a universal code describing
Int 21/6 PM	the ethical norms and principles; in the middle, more detailed codes developed or adapted by scientific societies; and at the bottom, operational codes specific to a particular workplace or institution.
Ukraine Stat 22/6 PM	A System (or infrastructure) of implementation of Codes has to be established at three levels:
	 The first level (local or institutional. Operation through education in Universities, in Institutions and other research centers where the research is conducted (by peer reviewing and supervision) and in scientific journals where the results are published; The second level (National). Operation through the National Councils for Bioethics, Biosafety and Biosecurity, and via financing Bioresearch; The third level (International)-control on BWC, and operation through general recommendations (e.g. International Ethical Guidelines). The latter rises the necessity to create an International Forum on Biosecurity and Biosafety.
Pakistan	A code should, however, form part of a broader "matrix of codes" applicable to
Stat 22/6 AM	decision makers, bioscientists, researchers and administrators handling life sciences
United States	What is a
Pres 14/6 AM	"Code of Conduct"?
	 Formal statement of values and professional practices of a group of indivudals with a common foucus, either an occupation, academic field, or social doctrine Defines the expectations and directs the actions of a group
United States	Findings: Social and Professional Contexts
Pres 14/6 AM	 Most codes addressed relationships between professionals and: The public, environment, and/or society Colleagues Constituencies served Fewer codes addressed relationships with trainees

India	A bottom up approach in formulation and implementation of bio-safety and
Pres 15/6 PM	bio-security policies through direct involvement of scientists
ABPI	Self regulation and participation is key
Pres 16/6 AM	

Japan	Due consideration should be given to the discussion at other international
Pres 21/6 AM	organizations, such as UNESCO, OECD, ICRC etc

Indonesia WP.24	Although the codes of conduct published by several UN specialized agencies do not refer specifically to Biological and Toxin Weapons in view of the fact that BTWC is related to a broad range of sciences, the codes of conduct of scientists involved in these activities should take account of the prohibition of biological and toxin weapons
Sweden	Bring in the pharmaceutical industry in the process related to any future
Int 16/6 PM	negotiations over codes of conduct
AAAS	To avoid the risk that the code will be divorced from the very real concerns
Pres 20/6 PM	expressed by non-scientists, there must be broad consultation with affected communities we must be careful not to burden codes with such unrealistic expectations
United States Pres 20/6 PM	Involve scientists and representative organizations early on and throughout the process.
United States Pres 20/6 PM	Get the assistance and support of organizations to whom scientists look for leadership (e.g., American Society for Microbiology).
United States	Including other stakeholders, such as industry, NGOs, and the public, is
Pres 20/6 PM	necessary to enable (a) decision on whether and how to move forward with a code
United States Pres 20/6 PM	Need stakeholder buy-in early in the code development process
United States Pres 20/6 PM	Need to test conclusions with other stakeholders
Japan Pres 21/6 AM	The core people to formulate Codes of Conduct should be scientists themselves. Involvement by people concerned in various fields is also necessary and productive, (including) security, public health, medicine, judiciary, publishing sector, funding, government etc.
Japan Pres 21/6 AM	(For the) coding process regular discussion among experts and working- level officials in various fields would be necessary
Iran Pres 21/6 AM	The involvement of scientists and scientific community in preparation of codes of conduct would both strengthen and highlight the role and responsibility of the relevant individuals in this field, and guarantee that such codes would not endanger the scientific nature of their activities and use of scientific achievements for peaceful purposes
Japan	Scientists should be the core people to formulate Codes of Conduct for
WP.21	Scientists, but involvement by other people concerned are also necessary
Algeria Stat 13/6 AM	(Codes of conduct) should be done by all the actors in this area, in particular researchers and scientists
Japan Int 16/6 PM	Include the pharmaceutical industry in the coding process
South Africa Pres 14/6 AM	Ethical codes (should be) developed by professional groups, industry, academia, etc.

United States	Frame the code around responsibility in the biological sciences
Pres 20/6 PM	
United States	Avoid alienating scientists by implying they need to be convinced to conduct
Pres 20/6 PM	responsible research

United States	Important to introduce scientists to a code of conduct by describing the
Pres 20/6 PM	potential scope of a code and presenting a well-formulated rationale regarding
	the benefits scientists might receive from a code
United States	
United States	A systematic process for developing a code may not be well-accepted
Pres 20/6 PM	
Japan	(It) should be promulgated that (a) 'Code is a measure to prevent conscientious
Pres 21/6 AM	scientists from receiving unnecessary restrictions on their research activities'
Iran	Codes of conduct should not leave individuals and scientists with the
Pres 21/6 AM	impression that codes are designed against them or their scientific activities.
	Due respect should be extended to the scientific community as members of the
	society who serve the noble objectives of humanity through the advancement
	of science. Wider contributions by the scientists in promotion, establishment
	and adoption of codes would effectively remove any such misunderstandings
	and would enhance the implementation of codes
Canada	(Being) adequately compensated for work, and the benefits of continuing
WP.6	to undertake legitimate activities outweighs the perceived greater benefits, and
	associated risks, of engaging in more dubious work.
United	It was considered important to address the purpose of codes of conduct and
Kingdom	demonstrate that the costs of development, promulgation and adoption did not
WP.16	outweigh the benefits.
United States	Implementation of (a) code should be via existing professional scientific
Pres 20/6 PM	societies as opposed to government
Malaysia	Ensure guidance and advocate mechanism inclusive of a robust education and
Pres 14/6 PM	-
ries 14/0 rivi	training programmes to achieve the desired objectives before embarking on a
	National legislation
Center for	A web of approaches are needed in order to increase biodefense/ medical
Biosecurity,	understanding as well as constrain malignant applications
University of	
Pittsburgh	
Medical	
Center (CB)	
Pres 15/6 AM	
Islamic World	Notwithstanding the important roles of other stakeholders, academies of
Academy of	sciences perhaps should shoulder a primary responsibility in the development,
Sciences (IAS)	promulgation and adoption of codes of conduct for scientists
Pres 15/6 AM	1 0
ABPI	Codes of conduct will be more readily accepted if they build upon existing
Pres 15/6 AM	institutional guidelines and principles and are developed in collaboration with
United	the scientists to whom they will be directed
United	work on codes of conduct should build on existing frameworks, procedures
Kingdom	and practices.
WP.16	
United States	Ensure organizational and individual accountability
Pres 20/6 PM	
United States	Ensure accountability for the principles of the code – without undermining
Pres 20/6 PM	support for the code
	1 1

United States	a code of ethics, as opposed to a code of conduct, is needed
Pres 20/6 PM	
United States Pres 20/6 PM	Social norm would not strictly enforce or regulate scientific research; it would be similar to the physician's Hippocratic Oath
Japan	(A) mutual check system (is)
Pres 21/6 AM	• difficult due to human resources constraints and highly sophisticated
	expertise
	can possibly hamper beneficial research activities
	• promoting transparency of research contents should be considered as an
	alternative
Iran	all necessary precautionary measures need to be taken to avoid hampering
Pres 21/6 AM	the economic or technological development of States Parties to the Convention
	or international cooperation in the field of peaceful bacteriological (biological)
	activities, while devising national codes of conduct
Iran	No attempt thus should be made to impose on States Parties any particular
Pres 21/6 AM	form or format for codes of conduct
Canada Pres 21/6 AM	Is it easier to follow the spirit of a code versus technical regulations
Pres 21/0 AM	• spirit respects the variation between communities
A	technical regulations often limit flexibility
Australia Pres 21/6 AM	Incorporating environmental values into codes of conduct (could be
FIES 21/0 AIVI	accomplished by focusing on)
	 post-materialist values door accleant and the Cain hymothesis
	 deep ecology and the Gaia hypothesis atowardship
	• stewardship
	sustainable development the measurement principle
	• the precautionary principle
Australia	quality of life Environmental values provide a different and fertile vocabulary for capturing
Pres 21/6 AM	the range of motivations for scientific discovery and contribution
Australia	Sustainable development has the potential to forge links and resolve tensions
Pres 21/6 AM	between economic and environmental concerns the same logic of
1105 21/07 111	incorporating environment, development and social concerns could be applied
	to codes of conduct.
Algeria	the matrix could cover a table of various types of possible codes. These
Pres 13/6 AM	would be tools of a legal nature and different rules: codes of conduct, of ethics
	and practices, with a view to achieving the maximum objectives for various
	publics: political decision makers, researchers, jurists and all other persons
	involved both in the defense sector and others
France	Drafting by each State of a charter for biological researchers which can serve
Pres 13/6 AM	as the basis for an international text
Cuba	any proposal for a code should provide for a combination of ethical,
Stat 16/6 AM	behavioural and practical aspects
United States	\dots a code should not be regulatory in nature – a code should raise the
Pres 20/6 AM	individual's awareness of ethical issues
Japan	Address the internet throughout the consideration of universities, researchers
Int 15/6 PM	and funders.

China	We should facilitate a high-level code of conduct for scientists engaged in life
Int 15/6 PM	sciences world-wide
Russia	codes must be universal; it would be inappropriate to apply different moral
Pres 14/6 AM	and ethic(al) standards to scientists in different countries
Nigeria	adopting a universal code should be practicable
Stat 21/6 PM	
Australia	possible outcomes a new universally agreed Code of Conduct based on a
Pres 14/6 AM	consensus-decision of all States Parties
United	A universal code of ethics could be a code that applies to all but it does not
Kingdom	necessarily mean there will be a single code; there could be other codes and
Int 22/6 AM	practices that lie below it.
United States	There is no 'one size fits all' approach to codes of conduct a universal code
Stat 13/6 AM	of conduct is not feasible
Cuba	There is no universal recipe for a code of conduct
Stat 13/6 AM	
Australia	No one size fits all - a range of regional, national, society, workplace codes
Pres 14/6 AM	
Indonesia	Although there is no 'one size fits all' in this domain and a universal code of
Pres 14/6 PM	conduct is not practically feasible at the present stage, we believe that existing
WP.24	codes of conduct should be harmonized. There are at least three main
	characteristics to bioethics, namely it is interdisciplinary, international, and
	pluralistic.
NTI	Codes of conduct will be more readily accepted if they build upon existing
Pres 15/6 AM	institutional guidelines and principles and are developed in collaboration with
	the scientists to whom they will be directed
United	work on codes of conduct should build on existing frameworks, procedures
Kingdom	and practices.
WP.16	
United States	A code cannot be applied uniformly across all life science disciplines and
Pres 20/6 PM	across all countries
United States	Process of code development and implementation may differ
Pres 20/6 PM	
Japan	It is not practical to try to develop 'a universal code of conduct'
Pres 21/6 AM	
Iran	A universal code of conduct is neither achievable nor practical. The success of
Pres 21/6 AM	this process lies in providing the States Parties with the most objective
	understanding of the possibilities to strengthen the implementation of the
	Convention through active interaction with the national scientific and
	professional community
Algeria	efforts to elaborate codes specific to the Convention could consist of a
Stat 13/6 AM	matrix code which would enable States Parties to base themselves on it at the
	appropriate time and this takes into account the view there was no single
0	efforts to elaborate codes specific to the Convention could consist of a matrix code which would enable States Parties to base themselves on it at the

Iran Pres 21/6 AM	Content of particular codes may necessarily vary depending on their individual context and objectives and the way in which the codes are intended to be applied by organizations or professional bodies
Republic of Korea Stat 13/6 AM	(Codes of Conduct) should adopt a balanced approach so as to not unduly limit the legitimate research activities of life scientists
Malaysia Pres 14/6 PM	A code should be comprehensive enough to combat the inadvertent use of science and at the same time encourage the expansion of rigorous scientific research
Pakistan Pres 14/6 PM	Balance between freedom for scientists to work independently for the welfare of mankind (and) to develop a culture of responsibility within the institutions employing scientists and funding research in the life sciences
Cuba Stat 16/6 AM	there should be clear establishment of the incompatibility of scientific work in biotechnology with a hostile use of results in armed conflict or towards other objectives which are not directly linked with sustainable development or the benefit of humanity
China Pres 16/6 PM	Scientists (working) on animal disease have the obligation to peacefully use pathogenic microorganisms. They also have the responsibility both to prevent and stop research and production that may jeopardize humankind, and to prevent the spread of disease and pollution of the environment
Germany Pres 20/6 PM	The need to find cures, diagnostic tools, and preventative measures against these agents is therefore aimed at fighting not only bioterrorism, but also naturally occurring dangerous infections
United States Pres 20/6 PM	Code should not impede scientific discovery while addressing national security needs
United Kingdom WP.8	it is important that codes are formulated so as not to undermine legitimate scientific exchange.
Germany WP.15	Additional regulations will hamper research in the field of biomedicine, biology and biotechnology. Experimental results should be made available to the scientific community as precise as possible. An open information exchange between scientists will allow a better understanding of risks arising from the handling of infectious or toxic material or genetic modifications of organisms. This will lead to generally accepted recommendations for risk management of dangerous pathogens and toxins.
Nigeria Stat 21/6 PM	The code of Conduct will have to take into consideration, the aspirations for scientific development of all States Parties, particularly those from the developing world
Algeria Stat 13/6 AM	These codes should not hinder scientific research or constitute a hindrance to the exercise of the legitimate rights of State to acquire biological equipment, substances and technology
France Pres 13/6 PM	There should be encouragement to the foreign researchers in laboratories to ensure varying approaches while ensuring protection from trainees from countries which do not provide security guarantees
Pakistan Stat 22/6 AM	Codes of conduct should prevent potential proliferation, not stymie scientific research

Italy WP.34	Avoiding any possible hostile use of research must take precedence over any duty derived from other commitments
Italy WP.34	Scientists should communicate and share information about biotechnology and its derived products and services in a balanced manner, taking into account both benefits and risks
United States Pres 14/6 AM	 Life Sciences: New Considerations "Dual use" potential of certain life sciences research requires consideration of new processes and procedures designed to minimize the likelihood that biological research will be misused to threaten public health and/or national security.
United States Pres 14/6 AM	 Life Sciences: Striking a Balance Goal is to enhance protections for life sciences research while ensuring that any impact on the free flow of scientific inquiry is minimized.

investigate if it is possible to find smallest common denominators that might
form the basis for an international agreement.
possible outcomes agreement of States Parties of certain elements or
themes that may subsequently be drafted into appropriate language by various
biological organizations/ associations/ societies and incorporated into existing
Codes of Conduct.
It is possible and meaningful for the BWC States Parties to agree on generally
important elements of Codes of Conduct
Core guidelines (must be) agreeable to all national participants with
institutional adaptation
Propose a set of 'building blocks' aimed at establishing codes of conduct for
scientists, either as individual researchers or as individuals responsible for the
direction, evaluation or monitoring of scientific projects in the life sciences
(There is a) possibility to reach an agreement to create a document at least in
the form of general guidelines on the matters discussed during our meeting.

United States	Signing the code would be voluntary; living according to its principles would
Pres 20/6 PM	not be because the code would create a set of social and scientific standards
Nigeria	Code of conduct is voluntary
Stat 21/6 PM	
India	Codes of conduct should be voluntary at all levels
Int 15/6 PM	
United States	Code should be voluntary at the national level; no mandatory enforcement
Pres 20/6 PM	
ABPI	Voluntary codes do not achieve much
Pres 16/6 AM	

United States	Expand focus from biology to (the) 'life sciences'
Pres 20/6 PM	
Sweden	Codes of conduct for Universities, Funders, Research and Publishers are
Int 15/6 PM	necessary

Malaysia Pres 14/6 PM	Guide those not only involved in scientific research but also funding bodies to be appreciative and reflect on the dual use of research applications and its inadvertent use
Georgia Int 14/6 AM	Codes of conduct should incorporate representatives of mass media.
South Africa Int 16/6 PM	Codes of conduct should address a wider range of persons than just scientists

Japan	We should bear in mind the variety of existing rules and regulations among
Stat 13/6 AM	countries and organizations relating to the 'codes of conduct for scientists' as
	well as the importance of the BWC context of our deliberations
Australia	Review existing codes - it may be better to further develop existing codes
Pres 14/6 AM	rather than developing new codes
South Africa	Advantages in adapting existing codes to cover these issues
Int 16/6 PM	
The Royal	Existing guidelines and principles should be used as the basis for any codes
Society	where possible, rather than starting from first principles.
Pres 20/6 AM	
United States	Identify existing structures which could be used to develop and maintain a code
Pres 20/6 PM	
United States	Code should use existing infrastructure to implement code when feasible
Pres 20/6 PM	
Algeria	initiatives aimed at the elaboration of codes of conduct specific to the
Stat 13/6 AM	Biological Weapons Convention should be based on existing codes, as well as
	on efforts under way with those referred to in the Convention, as those in other
	areas
NTI	Codes of conduct will be more readily accepted if they build upon existing
Pres 15/6 AM	institutional guidelines and principles and are developed in collaboration with
	the scientists to whom they will be directed
United	work on codes of conduct should build on existing frameworks, procedures
Kingdom	and practices.
WP.16	

China	Scientific activities should strictly comply with and safeguard the ethics
Pres 14/6 AM	related to national security, ecological, environmental and health safety
Nigeria	Scientists should use knowledge and abilities for the protection and enrichment
Stat 15/6 PM	of life in addition to respecting human rights and the dignity and importance of
	all forms of life
Nigeria	Scientists should be truthful and subject the assumptions, methods, findings
Stat 15/6 PM	and goals of their work including possible impacts on humanity and on the
	environment, to open and critical discussion
Cuba	the content of any code should consist of general guidelines to be upheld in
Stat 16/6 AM	new situations whose results have a doubtful benefit for humanity
InterAcademy	Scientists should refuse to undertake research that has only harmful
Panel (IAP)	consequences for human kind
Pres 20/6 AM	

T	
Iran	The need to draft, promote and adopt code of conduct should be concluded by
Pres 21/6 AM	the States Parties on the basis of the necessity felt to dissuade scientists and
	scientific community from the hazards posed by the effects of accidental or
	intentional activities which run contrary to the obligations undertaken by the
	States Parties
China	Scientists should firmly oppose the research, production and use of biological
Stat 13/6 AM	weapons, and should not participate in and assist such activities. They also
	have the responsibility to prevent and stop research and production, which may
	jeopardize the humankind.
China	should scrupulously abide by scientific ethics, always put the interests of the
Pres 14/6 AM	nation, people and humankind on primacy and insistently make science to
	serve the human civilization, peace and progress.
China	should scrupulously abide by scientific ethics, always put the interests of the
WP.20	nation, people and humankind on primacy and insistently make science to
	serve the human civilization, peace and progress.
Italy	Scientists and institutions must address questions and controversies
WP.34	surrounding the use of biotechnology and make choices that will best serve
	humanity
Nigeria	Scientists should not be involved in research that is to the detriment of
Stat 15/6 PM	humanity
China	All those who conduct scientific research and the technological development in
Int 21/6 PM	the life sciences or the related fields should comply with the basic guidelines
	for any scientists, i.e., any scientific activity should be based on serving the
	people, serving the society and between human beings and society, and
	between human beings and nature.
	people, serving the society and between human beings and society, and

r	
Canada	Codes and legislation is juxtaposed so that the two instruments can
Stat 13/6 AM	complement each other to the maximum degree possible
South Africa	Code of Compliance with non-proliferation legislation being contemplated
Pres 14/6 AM	would be required to be implemented by any institution required to register in
	accordance with legislation.
China	laws and regulations provide a solid legal basis in regulating the public,
Stat 13/6 AM	including the scientific personnel's conduct
IAP	Scientists should be aware of, disseminate and teach national and international
Pres 20/6 AM	law and regulations, as well as policies and principles aimed at preventing the
	misuse of biological research
IAP	Scientists who become aware of activities that violate the Biological and Toxin
Pres 20/6 AM	Weapons Convention or international customary law should raise their
	concerns with appropriate people, authorities and agencies
Canada	backing a code up with the threat of a sanction will help to counter
WP.6	economic pressure (to pursue prohibited activities).
AAAS	Increase knowledge about the laws, regulations and policies - governments and
Pres 20/6 PM	institutional - and professional guidelines that govern the conduct of research

Canada	There are however "niche" roles where codes can potentially fit in neatly with
Pres 22/6 AM	legislation
Pakistan	The scientific community dealing with life sciences and biological weapons
Stat 22/6 AM	should abide by local, national and international laws

France	There should be an element of transparency among peers without revealing
Pres 13/6 PM	scientific or economic secrets
United	Ethical codes (could require scientists to)
Kingdom	• Act with skill and care in all scientific work. Maintain up to date skills
Pres 14/6 AM	and assist their development in others;
	• Take steps to prevent corrupt practices and professional misconduct;
	• Be alert to the ways in which research derives from and affects the work
	of other people, and respect the rights and reputations of others;
	• Ensure that your work is lawful and justified;
	• Minimise and justify any adverse effect your work may have on people,
	animals and the natural environment;
	• Seek to discuss the issues that science raises for society. Listen to the
	aspirations and concerns of others;
	• Do not knowingly mislead, or allow others to be misled, about scientific
	matters. Present and review scientific evidence, theory or interpretation
	honestly and accurately.
Nigeria	Research associations, institutions and individual researchers should maintain
Stat 15/6 PM	generally accepted standards for good laboratory and manufacturing practice,
	and take action against 'bad science'
IAP	Scientists should always bear in mind the potential consequences -
Pres 20/6 AM	possibly harmful - of their research and recognise that individual good
	conscience does not justify ignoring the possible misuse of their scientific
	endeavor
American	Include and require all individuals in an organization act with honesty, integrity
Biological	and objectivity and promote openness on a day to day work basis
Safety	
Association	
(ABSA) Pres 20/6 AM	
Australia	Responsibilities of researchers (include)
Pres 20/6 PM	 'to society, funding agencies, their discipline/field, their colleagues and
1105 20/01 101	those whom they supervise or train'
	 approval by 'a human or an animal ethics committee, or by other safety or
	regulatory committees'
	 'report cases of suspected misconduct'
	 'in a responsible, timely and appropriate manner as directed by institutional
	procedures'
China	physicians should hold high professional ethics, have enough medical
Pres 15/6 PM	capacity and protect the health of public in the spirit of
	humanitarianismshould timely report the infectious diseases to designated
	organizations.
	· · · · · · · · · · · · · · · · · · ·

Italy	
-	Personal benign intent does not justify neglect of the possible hostile utilization
WP.34	of available technologies, while the use of good and safe laboratory procedures
	must also be a part of the moral duties of scientists, particular involved in the
	work with highly pathogenic microorganisms or with dangerous toxins, so that
	also the risk of unintentional damage be eliminated
Australia	Good leadership will turn a weak code or ethos into something highly
Int 22/6 AM	effective. Leadership which can change culture and change values will be
	critical to any degree of success (of a code of conduct)
United States	A code of conduct offers the greatest opportunity for improving the security or
Pres 14/6 AM	research at the level of the individual scientist.
Organisation	Promoting responsible stewardship in the biosciences (necessitates efforts to)
for Economic	identify and document common concerns regarding the oversight of the
Co-operation	biosciences; develop a common vocabulary; help broker and ingrate the
and	concerns of the constituent stakeholder communities into the development of
Development	codes; (and) help develop mechanisms to render codes and other oversight
(OECD)	tools operational.
Pres 13/6 PM	
Australia	ethical considerations, including scientific responsibility when working on
Pres 14/6 AM	certain research projects that may lead to discoveries that could make BW
1105 14/0 Alvi	more effective
Det Norske	Ensure that explanations are identified, incorporated into working practices and
Veritas	monitored for effectiveness
(DNV)	monitored for effectiveness
Pres 16/6/AM	
DNV	Responsibility lies with the operator to meet expectations and role of
Pres 16/6 AM	independent third party is to ensure this has been done in an effective and
FICS IU/U AIVI	transparent manner
IAP	
	Scientists working with agents such as pathogenic organisms or dangerous
FICS 20/0 AIM	
Australia	
ries 20/6 AM	
	• 'open presentation and discussion of results with peers
Italy	Scientists must collect and store in a retrievable form all information regarding
WP.34	studies and experiments performed, including the source of biological samples
	and pathogens used
Italy	The authorities in charge at the single institution of management of scientific
WP.34	issues must define a policy for internal evaluation of scientific products and for
	the availability of the above mentioned information
WP.34	 toxins, have a responsibility to use good, safe and secure laboratory procedures, whether codified by law or by common practice Responsibilities of institutions (include) promoting awareness of other relevant national guidelines 'research climate of open exchange of ideas and mutual cooperation' 'formal induction process regarding its policies and procedures for research staff, students and research trainees' 'open presentation and discussion of results with peers Scientists must collect and store in a retrievable form all information regarding studies and experiments performed, including the source of biological samples and pathogens used

China	Die scientiste must have a clear understanding about the content and numeroses
China Drag 14/(A)M	Bio-scientists must have a clear understanding about the content and purposes
Pres 14/6 AM	of their research, conscientiously analyze and evaluate the consequences of the
	achievements in their research and try their best to prevent the potential
	negative impact brought by such achievements
Australia	Responsibilities of Scientists (include) Not to knowingly participate in or
Pres 14/6 PM	provide assistance to the development of biological weapons (and) Consider
	the potential for their work to be misused in a BW programme
Australia	Responsibilities of Scientists (include) Ensure that materials, equipment and
Pres 14/6 PM	data that have a clear potential BW application are stored and transported
	securely (and) Ensure that in transferring materials or knowledge to scientists
	in other institutions, appropriate consideration is given to the use to which the
	materials or knowledge will be put
Australia	Responsibilities of Scientists (include) Comply with relevant code(s) of
Pres 14/6 PM	conduct and relevant national legislation and international conventions; For
	overseas transfers, comply with import or export control legislation where
	applicable (and) Where risks of diversions are identified, ensure that the risks
	are adequately managed to minimise the potential for misuse
Australia	Responsibilities of Scientists (include) Ensure that only suitable cleared and
Pres 14/6 PM	qualified staff have access to materials, equipment or data that are assessed as
	being of high risk of diversion to a BW programme (and) Ensure that only staff
	who are trained in the necessary safety procedures are allowed to handle
	hazardous materials
Australia	Responsibilities of Scientists (include) Submit research proposals for risk
Pres 14/6 PM	assessment by the institutional review body, where such exists; Periodically
	reassess the potential applications and implications of their research to a BW
	programme. Where research throws up unexpected results leading to the
	appearance of previously unidentified risks of misuse, and that risk is deemed
	to be significant, the relevant authorities should be informed (and) Notify the
	appropriate authorities if they become aware of suspicious activities
	undertaken by other scientists.
Nigeria	Scientists must investigate thoroughly and take into account the social and
Stat 15/6 PM	environmental consequences of any research about to be conducted
IAP	Scientists have the obligation to do no harm. They should always take into
Pres 20/6 AM	consideration the reasonably forseeable consequences of their own activities.
Australia	Conflicts of interest (requires a consideration of)
Pres 20/6 PM	• 'a divergence between the individual interests of a person and their
	professional obligation to the institution
	 such that an independent observer might reasonably question whether the
	professional actions or decisions of that person are influenced by their own
	interests'.
	 'private benefits significantly dependent on research outcomes and
	significant personal or professional advantage'
Janan	
Japan Pros 21/6 AM	Whistle blowing may work effectively in some particular cases, but to
Pres 21/6 AM	distinguish false information is very difficult (and we) have to recognise
	possible abuse of whistle blowing

United Kingdom WP.8	codes should make provision where necessary to protect the individuals reporting concerns, and, indeed, to protect those who might be maliciously or mistakenly accused. In making such provision, however, codes must be compatible with, and take cognisance of, all relevant national legislation covering disclosure.
National Institute of Animal Health (Japan) Int 16/6 AM	Biosafety and biosecurity measures are required in the industrial sector, and education and training, including codes of conduct for researchers, is important.
Australia Pres 14/6 PM	(Recurring) themes or principles (include) Introducing biosecurity measures appropriate to the level of risk associated with a particular line of scientific work."
Australia Pres 14/6 PM	Ensure that materials, equipment and data that have a potential BW application are securely stored and transported. This would include ensuring that scientists have adequate facilities for safe handling and storage of hazardous materials and that staff are trained in the appropriate safety and security procedures
CDBB Pres 20/6 AM	Codes of conduct must provide for biosafety, biosecurity and bioethics
CDBB Pres 20/6 AM	Research in the life sciences, including biodefense research must be conducted safely, securely and ethically
Japan WP.21	Elements required in codes of conduct (include) formulating specific procedures and/or rules for handling such agents and information (measures for management and control)
China Pres 16/6 AM	requiring the scientists and related personnel in laboratories dealing with pathogenic microorganisms to abide by the operational rules so as to prevent the leak of pathogenic microorganisms and protect the public health.
China Pres 16/6 AM	They must comply with national laws and regulations, comply with the disease reporting system and scrupulously abide by the technical guidelines on biosafety and biosecurity.
China Pres 16/6 AM	Environmental protection should be carefully considered in any scientific research to prevent the disposal or leakage of any toxic materials or pathogenic microorganisms to the environment. Appropriate disposal measures of any of these materials should be highly regulated.
Pakistan Stat 22/6 AM	Government institutions, semi-autonomous organizations, industry, universities and laboratories should make development of codes of conduct for biosafety and biosecurity part of their organizational Standard Operating Procedures
ICGEB Pres 13/6 PM	(Codes should be) Addressed to the individual conscience of the scientist (with) no judicial implications; Focus on individual responsibility of scientists and on the principle that ethical values shall overcome hierarchy; Life scientist(s) is in a position to follow the complete procedure related to the potential misuse of the experiment; Not a definition of permissible or forbidden experiments but the concept of acceptable or unacceptable intents of the research; (and) Not aimed at establishing principles of self-censorship but example of self-governance by the scientific community

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ICGEB	(Codes of conduct) should specifically call on the individual scientist to be
Pres 16/6 AM	clearly aware of the likely or possible misuse of the outcome of his/her work
	for health and the environment, regardless of his/her hierarchical position,
	keeping in mind the moral obligations to denounce any misuse of
	biotechnology he/she detects in the fulfilment of his/her duties.
IUBMB	To be accepted universally a code of conduct should be:
Pres 15/6 AM	• Short
	• Easily understandable to both scientists and the general public
	• Acceptable to scientists coming from a variety of backgrounds and cultures
	• Endorsed by national and international scientific professional organizations
	with especial emphasis on those in the life sciences
	Agreed to by both public and private funding bodies
	Applicable also to scientists in industrial labs
Center for	Mechanisms necessary (include)
Strategic and	 Working with authorities is essential to improve protection against
International	deliberate exposure to pathogens
Studies	• develop governance mechanisms to address contentious research'- research
(CSIS)	with weapons implications that raises questions concerning how, or
Pres 16/6 AM	whether, it should be conducted and disseminated
	• Implementing prior review of proposals to conduct 'contentious research'
	 Offering 'last resort' guidance for editors, publishers, and researchers to
	deal with research that raises security concerns
	 Raising awareness of dual-use concerns
	 Maintaining dialogue with security, law enforcement and biodefense
	communities
Cuba	Principles (include):
Stat 16/6 AM	humans as supreme beings
	 avoidance of negative impact from scientific knowledge
	 promotion of debate
	 objective polemic in a freedom of discussion
	 assessments of scientific discussions and social impact in connection with
	research
	 the upholding of autonomy and dignity of human beings under inquiry
	 the upholang of autonomy and digitity of numan beings under inquiry the protection of the environment and
	 the protection of the chynomical and the promotion of sustainable development
IAP	principles to guide individual scientists and local scientific communities
Pres 20/6 AM	(include)
	Awareness
	AwarenessSafety and Security
	 Safety and Security Education and Information
	• Accountability (and)
	Oversight of Research

WMA D 20/(CAM	Making a code work (necessitates efforts to)
Pres 20/6 AM	• Make it relevant
	• Make it simple
	• Make it clear
	• Ensure it is taught
	• Ensure it is understood
	• Engage those who need to use it/ follow its principles
AAAS	Four major elements to consider when planning how to embody those
Pres 20/6 PM	responsibilities in a code of conduct for scientists are:
	• The relationship between a code, the experience of scientists, and the core
	values of science;
	• The specific functions that codes of conduct perform and the
	implementations of those functions for how scientists and others will
	interpret the code;
	• The importance of reinforcing whatever cide is adopted with follow-up
	activities; and
	• The need for evaluation of the code's impact on knowledge, attitudes and
	behaviour
United States	Suggestions for Code Content (include)
Pres 20/6 PM	• Ensure science benefits mankind/does no harm
	• Ensure right to advance scientific knowledge
	Obligate individuals to identify/call out unethical behavior
	• Obligate individuals to know the quantity and content of material and
	knowledge they possess and who should be granted access
	• Consider dual use implications before dissemination of information,
	knowledge, materials and technology
	• Ensure peer review for safety, security and ethical implications
	• Obligate individuals to abide by applicable U.S. laws and regulations, and
	international treaty requirements
	• Enable individual's right to refuse participation in unethical science
	Communicate the code and code precepts
	 Ensure code reassessment and reevaluation
Australia	Principles (include)
Pres 20/6 PM	 respect for human beings
	 justice
	 research merit and integrity
	 balancing benefits and risks in research
	 consent to participation in research
Japan	Significance of Codes of Conduct (includes)
Pres 21/6 AM	To ensure scientists realize the potential risks inherent in their activities
	To raise scientists' awareness of their ethical and social responsibility
	To help scientists understand the national and international rules, regulations
	and frameworks
	To ensure biosafety and biosecurity
	To prevent dual-use research results from being abused by criminals and
	terrorists
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Japan	Possible elements for codes of conduct
Pres 21/6 AM	 Ethics/ morals (including) ethics for scientists (and) social/ professional
1105 21/07 111	responsibilities
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	 Risk awareness (including) efforts to reduce risks increasing awareness (and) open debate
	• Education/ promulgation (including) training promoting promulgation (and the) observance of treaties, regulations, etc.
	• Control of biological agents (including) biosafety (and) biosecurity
	 Control of information (including) publication of research results/ information control
	information control
	• Research funding (including a) consideration for research contents in
	funding
	• Oversight of research contents (including) ensuring transparency of
	research contents (and) oversight and supervision of research activities
Canada	Codes of conduct and practice (should contain)
Pres 21/6 AM	Systematic collection(s) of unambiguous guidelines
	• (a statement of a) group intent to adhere to defined culture
	• unequivocal clarity and intent
	• support (for) ongoing guidelines, education, assessment, positive feedback,
	alternative solutions to problems, affirmation
	individual accountability within the culture
	• (a) process (which) must start small and enlarge - a generational work
Argentina	Such code of conduct could include, inter alia, a statement that scientists will
WP.1	use their knowledge and skill for the advancement of human, animal, and plant
	welfare and will not conduct activities directed towards the use of micro-
	organisms or toxins or other biological agents for hostile purpose or in armed
	conflicts.
Germany	Codes of conducts will do no harm, but will have no effect on those who have
WP.11	bad intentions. Some recent developments are unacceptable, however, because
	they violate central rules of scientific research. These include:
	• Censorship of scientific publications, even if it comes under the label
	stewardship;
	• Incrimination of certain research topics, such as studies aiming at altering
	pathogenicity, transmissibility, and host range of an infectious agent;
	• impeding the exchange of biological material by non-transparent and non-
	matching shipping regulations; and
	restrictions of free international exchange of scientists.

Commony	azientista participating in hiemodical and hiegoianes response have a surely
Germany WP.12	 scientists participating in biomedical and bioscience research should agree: not to engage knowingly in research for the production of biological agents for the purpose of their use in hostile conflicts. This is a necessary element of a code, however, it does not address the real problem of dual use research and the inadvertent production of dangerous biological agents. Therefore, another element that should be included is the obligation: to become informed and be aware of possible dual use aspects of biomedical and bioscience research, to carry out risk assessments at each stage of the research process as a reflective action and to consider alternative approaches as the risks demand.
Argentina Stat 22/6 AM	 suggest the following five recommendations that we feel should be taken into account in the drafting, promulgation and adoption of codes of conduct: greater awareness of the ethics in practical investigation, ethics and sciences should go hand-in-hand with codes for science institutions that promote the creation of appropriate conditions for the integrity of research and for an ethical frame for implementation of security and oversight measures. support coordinating actions with countries in the region should establish security thresholds that should be adopted by institutions and individuals, avoiding measures that might unnecessarily, however, restrict the work of responsible research support the establishment of an international fund that will ensure that those countries that are not in a financial position to meet the guidelines established and adhere to the established thresholds should receive the necessary financial assistance to ensure such compliance
Ukraine Stat 22/6 PM	 On the Code(s) itself, which may be different in size, details and contents depending on goals and other factors but which must have general features (or, in other words, must be harmonized): code(s) has to be based upon the principles of the BWC and Geneva Protocol of 1925; code(s) has to be easy for understanding and not permitting double interpretation; code(s) of conduct linked to the Biosafety has to cover all scientists involved in the research concerned and the same time to protect these people from biohazards; code(s) has to be reviewed from time to time in accordance to the relevant changes in life sciences.
Ianan	Should consider codes of conduct in the context of the Biological Weapons

Japan	Should consider codes of conduct in the context of the Biological Weapons
Int 15/6 PM	Convention, for instance Article IV
France	There should be willingness to provide warnings, whilst also protecting the
Pres 13/6 PM	whistle blower.
Iran	Codes of conduct should avoid any restrictions on exchange of scientific
Pres 21/6 AM	discoveries in the field of biology for prevention of disease and other peaceful
	purposes. Subjecting scientific research and the free flow of scientific
	information to undue restrictions, may amount to violation of obligations
	undertaken under Article X of the BWC.

II	the content of each code and another relate to comparing index and
United	the content of such codes, where they relate to core principles and
Kingdom	responsibilities enshrined within the BTWCfallunder three broad themes:
WP.8	The raising of awareness of the Convention and its Articles, key objectives and prohibitions;
	Undertakings to adhere to its prohibitions and to responsibilities aimed at preventing the misuse of science (whilst encouraging scientific exchange for peaceful purposes); and,
	Reporting concerns relating to breaches of the prohibitions
China	All those who conduct the scientific research and the technological
Int 21/6 PM	development in life sciences or the related fields should be fully aware of the
	purposes and objectives of the Biological Weapons Convention and abide by
	its provisions. They should firmly oppose the research, production, use,
	storage or transfer of the biological weapons and should not assist or
	participate in such activities.
Italy	Biological weapons are unacceptable under any circumstance and any event:
WP.34	scientists must be determined not to participate in any work or activity that will
	bring to the production or the use of biological agents aimed at causing harm to
	human and animal health or to the natural environment

China	We need to find the threshold for criteria for acceptable/ unacceptable research
Int 15/6 PM	we need to find the threshold for effective for deceptable, undeceptable research
Canada WP.7	Certain actions that might be constrained under a code of conduct may not actually be illegal in of themselves, but can come very close to crossing that line. Examples of this might include conflicts of interest or the irresponsible dissemination of knowledge, neither of which are directly prohibited under legislation, but can lead in short measure to activity that is in contravention of the laws of the land.
United	Consideration might be given to distinctions, if any, between scientific
Kingdom	misconduct and misuse of science; or how to incorporate misuse of science into
WP.17	existing codes, identified principles of scientific practice, or excellence in the UK Government Science.
China	Any risk caused by scientific research to the public health and social
Int 21/6 PM	development should be avoided in its best efforts. Such work as trying to
	increase the pathogenicity, virulence or drug resistance of pathogenic
	microorganisms, to construct non-naturally-existing or artificially made
	severelyy infective pathogens (e.g. poliovirus, variola poxvirus etc.) or
	reactivate/restore the extinct pathogenic microorganisms should not be conducted.
China	In every step of the whole research process, data should be analyzed, assessed
Int 21/6 PM	and evaluated to foresee any possible negative consequences to public health,
	nature and the society to prevent scientific accomplishments to be misused to
	harm the nature and the public health. In any case this negative effect is being
	seen, the research should be stopped immediately and the scientific community
	should be notified at the same time.
United States	Need (an) efficient mechanism for judging what is dual-use
Pres 20/6 PM	

Canada Pres 21/6 AM	Amber light words and combinations (which may help in distinguishing between permitted and prohibited science include) environmental persistence, resistant to, altered incubation period or host range, modification of host immune response, no immunity, very stable in the environment, become highly virulent or infectious
Sweden Int 21/6 PM	Issues like development of new pathogenic agents for assessment of vulnerability should be considered in developing codes of conduct for research funders.

France	Excluding from the scientific community any individual who violates his
Pres 13/6 PM	obligations for political or economic reasons
Australia	a one line statement that encapsulates the key message in an easy to recall
Pres 14/6 PM	format would achieve widespread awareness of the existence of the Code and
	its basic principles.
СВ	To be effective, training/ codes should be organic to the culture/ practice of
Pres 15/6 AM	science
Australia	Environmental ethics may promote a regional and, perhaps ultimately, a global
Stat 15/6 PM	perspective to ethical debate, which is important in relation to the BWC
	environmental ethics provides an alternative frame of reference that is well
	placed to help resolve associated dilemmas. In this context, environmental
	ethics has a place in discussions relating to ethical conduct under the BWC.
Poland	Ethical arguments should be considered in their (codes of conduct) formulation
Pres 16/6 PM	and implementation
South Africa	Combined codes of conduct covering all weapons of mass destruction may be
Int 16/6 PM	worth considering
South Africa	Codes, where needed, should be short and broad
Int 16/6 PM	
The Royal	producing guidance for referees on dual use issues would be helpful, to help
Society	referees take them into consideration when assessing both funding proposals
Pres 20/6 AM	and publications.
Japan	Elements required in codes of conduct (include) measures to improve
WP.21	awareness of scientists who handle potentially dangerous agents and material
	(measures for ethical aspects)
China	Any activity related to bio-defense research should be transparent to prevent
Int 21/6 PM	any non-peaceful activities to be conducted under the name of bio-defense.
Italy	Especially in the field of agriculture, researchers, when defining protocols
WP.34	deriving from their activities, for the production of agents potentially usable as
	biological weapons, should include, whenever possible, advices on how to
	trace, reduce or neutralize the effects of such agents
Sweden	Important to consider that patent applications also can contain technical and
Int 21/6 PM	scientific information that could be misused.
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France	Research laboratories to be brought into networks creating the feeling of

France	Research laboratories to be brought into networks creating the feeling of
Pres 13/6 PM	collective responsibility
China	Exchanges and cooperation with foreign counterparts with the aim to learn
Pres 14/6 AM	from each other and make progress together

IUBMB Pres 15/6 AM	International exchange is a great way to broaden the outlook of future scientific leaders and may also be of help in reaching a consensus on a global code of conduct for scientists.
India	Sharing experience is important for those countries and scientists that are not
Int 15/6 PM	aware of these dilemmas
Germany	It is necessary to strengthen the international contacts of scientists working in
WP.14	the field of infectious disease research. Despite the fact that the new situation
	regarding biosafety and biosecurity makes it necessary to control persons
	working at least with category-A-infectious agents, the international contact
	between scientists should be strengthened rather than being restricted.
Japan	Consider how Governments, public sector, third parties and outsiders can be
Int 16/6 PM	engaged

France	There should be symposia and conferences organized at the level of individual
Pres 13/6 PM	laborator(ies), they should be continuing training in ethics of responsibilities
France	Reference and principles should be inculcated in the researcher through using
Pres 13/6 PM	neutral for a, so that everyone can dare, without greater risk, to alert as to
	abuses.
South Africa	Provision of education, training, etc. to promote the norm against BTW (could
Pres 14/6 AM	include) Road shows; Information; Newspaper, journals, etc. articles;
	Inclusion in curriculae; Seminars; (and) Presentations
China	Recommends opening a required course on scientific ethics for
Pres 14/6 AM	postgraduates, strengthening the moralities education for young students and
	setting up supervising networks against improper research activities
Australia	Promulgation and adoption of codes (should incorporate) a combination of :
Pres 14/6 AM	Seminars conducted in workplaces
	• Specific courses at undergraduate and postgraduate level including the use
	of case studies and the development of problem-based learning
	 Mentoring by staff
Australia	Educational institutions should be encouraged to include components
Pres 14/6 PM	addressing ethical issues in scientific study programmes.
Australia	Include in undergraduate and/or graduate training programmes an element
Pres 14/6 PM	addressing ethical issues in science
Australia	it is not enough simply to put such Codes in place. Without effective
Pres 14/6 PM	measures to educate scientists about the existence and importance of such
	Codes, attitude and awareness will remain largely unchanged.
Australia	any education campaign has to be a continuous process. The information
Pres 14/6 PM	needs to be presented regularly and through multiple channels involving both
1105 14/01 14	bottom-up and top-down approaches.
Australia	targeting high school or secondary school students may constitute an
Pres 14/6 PM	effective method of reaching the whole scientific community with a general
	message outlining the key issues. Incorporating the message into school
	curricula will provide coverage of a broad cross section of the community
NTI	A code of conduct should be the end point in a process of education and
Pres 15/6 AM	awareness-raising
AMA	Ethical principles should be part of the education and training of all physicians
AMA Pres 15/6 AM	involved in biomedical research
r105 13/0 AM	mvorveu m biometical research

India	Development of training are growing and motorials for advacting acientists on
India Pres 15/6 PM	Development of training programmes and materials for educating scientists on bio-safety and bio-security issues
Sweden	Encourage the inclusion of BWC awareness and the dual-use dilemma in
Int 15/6 PM	graduate student curriculae
Cuba	
Stat 16/6 AM	the inclusion in textbooks and training programmes for the military
	(scientists) of the prohibitions included in the Convention
The Royal	the consideration of ethical and social implications of advanced technologies
Society Pres 20/6 AM	(such as nanotechnology) should form part of the formal training of all research students and staff.
IAP	Scientists with responsibility for oversight of research or for evaluation of
Pres 20/6 AM	projects or publications should promote adherence to these principles by those
1105 20/0 Alvi	under their control, supervision or evaluation and act as role models in this
	regard
AAAS	Goals for research ethics education should include
Pres 20/6 PM	 Enhance understanding of what constitutes the range of accepted practices
1105 20/01 111	• Enhance understanding of what constitutes the range of accepted practices in research;
	 Heighten sensitivity to and appreciation for the ethical issues associated
	with doing dual-use research;
	 Improve abilities for reflecting independently on ethical issues and thinking
	creatively about possible solutions;
United States	Dual-use education of those pursuing careers in the life sciences must begin at
Pres 20/6 PM	the university level and be continually reinforced.
United States	Develop programs for training, education and outreach
Pres 20/6 PM	Develop programs for training, education and outcach
Australia	Supervision of students & research trainees (necessitates)
Pres 20/6 PM	 'structured formal training in research ethics, research methods and
	research governance'
	• 'Researchers acting as supervisors must provide guidance in all matters of
	research conduct to those whom they supervise'
	• 'Researchers must not put research students or junior researchers at risk.
	Risks can include chemical hazard, infectious disease and psychological
	trauma'
Japan	ethical education should be given at an early stage e.g. foundation course in
Pres 21/6 AM	universities
Japan	Education for corporate researchers and scientists (should be)
Pres 21/6 AM	• before they are assigned to the job
	• (part of) regularly continuous education after they begin working
Iran	Training programs and materials on bio-safety should also be improved and
Pres 21/6 AM	inserted in university curricula
Germany	Governments should therefore encourage universities to place such instruction
WP.12	into their biomedical and bioscience curricula as required courses. Special
	incentives should be offered to those universities that do so.
Germany	The only solution: careful education of students from the very beginning,
WP.13	promote special training of graduate students and postdocs, achievement of
	generally accepted guidelines and selfcontrol of science and scientist on local,
	national and global levels.

Russia	to raise public awareness of the BTWC goals and objectives, administrative
WP.19	and criminal responsibility for violations of its provisions bysupplementing
	the textbooks and curricula of higher education medical, chemical and
	biological institutes with a lecture course on the subject
Japan	Consider the significance of education and training
Int 16/6 PM	
Nigeria	Life science students should be educated in ethics of science
Stat 15/6 PM	
Argentina	For individual researchers, codes of ethics for scientists must be seen as an
Stat 22/6 AM	instrument both for teaching ethics to researchers in training and for their
	training when they are hired as young researchers by scientific institutions.
	Codes thereby contribute to building an ethical conduct on the part of scientists
	and also boosting confidence of society in science
Canada	Codes can also act as teaching tools, bringing legislative provisions into the lab
Pres 22/6 AM	or classroom
Pakistan	Raising awareness should start at schools and universities and culminate into
Stat 22/6 AM	scientific institutions
Italy	Scientists must strive to know, diffuse and teach the knowledge of national and
WP.34	international regulations aimed at abolishing the harmful use of biological
	agents, including, in particular, the Biological Weapons Convention
Italy	Appropriate codes of conduct should be included in ethics courses in university
WP.34	and high school curricula

France	All researchers in the course of the studies and throughout their careers must be
Pres 13/6 PM	conscious of the potential misuse of their work
France	Make researchers aware of the potential hazards resulting from failure to
Pres 13/6 PM	respect basic rules in laboratories with respect to security and safety
South Africa	Personnel in institutions to be informed of, and to comply with, the content of
Pres 14/6 PM	the Code of Compliance
South Africa	Provision of education, training, etc. to promote the norm against BTW (could
Pres 14/6 PM	include) Road shows; Information; Newspaper, journals, etc. articles;
	Inclusion in curriculae; Seminars; (and) Presentations
Australia	full awareness of the scientific community of national laws related to
Pres 14/6 AM	biological activities, and full compliance with all such laws
Australia	Effective outreach is essential - this is a continuing process, cannot just do once
Pres 14/6 AM	
Australia	(Recurring) themes or principles are:
Pres 14/6 PM	• Raising awareness of the possibility amongst scientists, to ensure that they
	do not inadvertently assist in a biological weapons programme;
	• Raising awareness of relevant legislation to ensure that scientists do not fail
	to comply through ignorance of the existence or scope of the legislation;
Australia	States should work to promote awareness amongst research institutions, the
Pres 14/6 PM	biotechnology sector and other scientific institutions of their obligations under
	international conventions and treaties, of relevant national legislation, and of
	the existence of the Code and its implication for their work.
Australia	Promote awareness amongst scientific staff of the existence of the Code and
Pres 14/6 PM	their obligations under it

Australia	Raise awareness amongst staff of relevant code(s) of conduct and relevant
Pres 14/6 PM	national legislation, including important and export regulations, and of
	international conventions governing materials and equipment with BW
	applications
Pakistan	Awareness raising among scientific community about BTWC provisions (could
Pres 14/6 PM	include) Seminars to sensitize the scientists and the management of
	laboratories, industry and research facilities
Pakistan	Awareness raising among scientific community about BTWC provisions (could
Pres 14/6 PM	include) Management of each organization/establishment is responsible for
	the safety and security of biological agents within and in the use of their
	respective establishment
Pakistan	Awareness raising among scientific community about BTWC provisions (could
Pres 14/6 PM	include) Undergraduate and post graduate courses in universities
India	Need to increase awareness of the risk of bioterrorism among scientists and
Pres 15/6 PM	
South Africa	managers Second most important element is education and awareness raising for
Int 16/6 PM	
AAAS	scientists, managements and others Any code of conduct is likely to fade in the minds of its adherents and lose its
AAAS Pres 20/6 PM	
	powers of persuasion if not reinforced periodically
United States	Broad-based outreach must accompany the process to develop a code
Pres 20/6 PM	
United States	Develop leadership and advocacy for code infrastructure
Pres 20/6 PM	
Iran	Raising scientific community's awareness in either state or private sectors with
Pres 21/6 AM	respect to the objectives enshrined in the BWC could be an important and
-	effective element in promoting the national implementation of the Convention
Iran	Scientists should be encouraged to convene seminars, workshops and prepare
Pres 21/6 AM	research papers to raise the awareness
Canada	(Important to raise awareness of)
Pres 21/6 AM	Individual accountability, potential harm outcome
	• Understanding of relevant conventions, treaties, agreements
	• Impact public safety/ health, environmental safety, global security
Canada	outreach and communication activities that might accompany the
WP.7	promulgation of a code of conduct would serve as a useful tool to inform
	researchers and students as to the limits of the legislation as well as the risks of
	other activities that are not necessarily prohibited.
United	it follows that a further fundamental aspiration of a code of conduct should
Kingdom	be to assure awareness amongst individuals of the obligations and restrictions
WP.8	drawn from national legislation implementing, or otherwise relating to, the
	BTWC.
Russia	to raise public awareness of the BTWC goals and objectives, administrative
WP.19	and criminal responsibility for violations of its provisions byholding national
	and international workshops, symposia and conference to consider BTWC
	problems, including those that are the subject of consultations among States
	Parties to this Convention in Geneva

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Iran	the Avicenna Prize for Ethics in Science is expected to help significantly to
Stat 22/6 AM	increase international awareness and highlight the importance of ethics and
	scienceThe purpose of the Prize is to reward the activities of individuals and
	groups in the field of ethics in science. Such activities shall be in conformity
	with UNESCO's policies and be related to the Program of the Organization in
	the field of ethics of science and technology.
Argentina	On the subject of the content of codes, firstly as regards researchers as
Stat 22/6 AM	individuals, the content of codes should contribute to raising awareness
	regarding the need, firstly, to maintain intellectually honest conduct, maintain
	integrity in scientific practice and its outcomes and in relations with colleagues
	and, secondly, develop the awareness of researchers regarding the risk to
	individual communities and the environment that may be caused in working
	with dual-use microorganisms
Italy	Scientists must act to raise the public awareness on the principle that the
WP.34	production or use of biological weapons should be universally prohibited,
	prosecuted and punished (from this point of views, the suggestion to encourage
	under-graduate and post-graduate education programs which address the
	ethical and practical aspects of preventing the misuse of science should be
	taken into account)
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South Africa	Through information and education programmes encourage professional
Pres 14/6 AM	groups, industry, academia, etc to develop their own accepted set of principles
	(codes of conduct) against BTW proliferation
China	Setting up institutions is to better supervise the implementation of the in-house
Pres 14/6 AM	guidelines
Australia	All relevant individuals must 'own' codes, including senior managers,
Pres 14/6 AM	academics, researchers, technicians - i.e. not just scientists
Pakistan	Awareness raising among scientific community about BTWC provisions
Pres 14/6 PM	(could include) Research establishments, laboratories and universities to
	develop their own in-house codes of conduct
Germany	Codes of conduct have added value in awareness raising, and implementing
Int 15/6 PM	legislation and regulations
Cuba	Scientists and managers at all levels have the duty to disseminate and teach
Stat 16/6 AM	matters relating to the harmful use of biological agents and toxins
Japan	The government and concerned organizations such as universities, research
Pres 21/6 AM	institutes and professional bodies have their own roles for raising awareness

United	the promulgation process must also involve activity with the appropriate
Kingdom	community that will be affectedandspecial efforts may be required to raise
WP.9	awareness in other scientific communities or in locations, laboratories, or
	places of work that have not generally considered that risk.
	Promulgation may involve some or all of the following:
	(a) Raising awareness of the existence and content of any Codes;
	(b) Clarifying content and assuaging concerns about the purpose of any
	Codes;
	(b) Publishing information about any Code;
	(d) Encouraging 'ownership' of any Codes within the scientific
	community and other relevant stakeholders;
	(e) Establishing expectations and objectives related to any Codes its
	adoption by the appropriate bodies
	It is important to the UK that the promulgation aspect continues such a broad
	approach with multiple stakeholders. The promulgation activities form an
	important part of awareness raising, which is an essential part of the overall
	exercise.
United	Institutions and organisations could be encouraged to reflect BTWC issues and
Kingdom	the principles of relevant codes of conduct in their operational frameworks and
WP.16	procedures. Research Councils and other funding bodies could have a role in
WF.10	
	ensuring that research proposals consider implications for the BTWC and the
	risk/benefit balance of the work. Review panels, referees and publishers could
A	also consider these issues.
Argentina	Scientific institutions must ensure compliance with principles established in
Stat 22/6 AM	codes through oversight mechanisms and transmission of values and principles
	to young researchers who initiate scientific work. Science institutions must
	create work environments that encourage integrity in research and should draft
	manuals of practice that accompany codes of conduct
Argentina	(On the national level) action should be taken to foster the enactment of
Stat 22/6 AM	legislation that is coherent, coordinated and agreed at the regional level in
	order to ensure conditions of security and enhance multicentric research.
	Likewise, science institutions should be provided with the necessary funding to
	appropriately implement established regulations
Ukraine	use national and international professional organizations for spreading
Stat 22/6 PM	information on BWC at the relevant scientific fora, through scientific
	periodicals and in relevant National Institutions.
Norway	If the profession is not adhering to law they could not receive their insurance
Int 22/6 AM	
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Iran Pres 21/6 AM	States Parties should appropriately inform the governmental and private institutions and companies about the objectives of the Convention, and highly and effectively warn them against the breach of obligations under the Convention
Russia WP.19	to raise public awareness of the BTWC goals and objectives, administrative and criminal responsibility for violations of its provisions byissuing by national BTWC bodies special compilations reflecting the progress made in the BTWC implementations

Awareness raising among scientific community about BTWC provisions (could
include) Popular lectures in the universities by experts in this field so that
the new generation of scientists, medical doctors and engineers are aware of
the dangers of an irresponsible attitude in handling these dangerous agents
target audiences in raising awareness of Codes of Conduct (could include)
a. Professional societies and industry bodies;
b. Institutional biosafety committees (IBCs);
c. Animal experimental ethics committees, human ethics committees, and
scientific review bodies; and
d. Direct targeting of institutions, including university vice chancellors,
faculty heads, and the heads of institutions and companies.
Academies of sciences (can):
• Be directly involved (in) the drafting of codes of conduct;
Dissemination among the science community;
• Ombudsmen: Familiar with the use or abuse of science;
• Raise awareness and explain (the) content to decision-makers; (and)
Monitor and evaluate
Adoption of policy of outreach to industry to inform and involve it in the
process of evolution of bio-safety and bio-security policies
Scientific academies might usefully be included in the development of codes of
conduct
Professional re-registration is one method of promulgating ethical standards.
Codes of Conduct required for professional researchers in the industrial sector
Ensure the scientific community implement measures capable of meeting the
expectations placed upon them and communicate, communicate, communicate
Scientists should actively conduct cooperation and communication. In order
to learn others' advanced experience and promote relevant work, scientists
on the animal disease should communicate and cooperate with other countries
and international organizations.
The WMA can
• Help with writing a code
• Help with publicising to medical researchers and their colleagues
Link to other professional groups
(offer) reassurance
A code of conduct will require dissemination among the community that
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developed and agreed it, as well as those scientists at which it is aimed.
developed and agreed it, as well as those scientists at which it is almed.
Codes of conduct could be the basis for the promotion of education and
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France	The scientific press should be used as an avenue for making available to the
Pres 13/6 PM	largest possible number, data which should not remain secret but should be
	simultaneously aware that unrestricted information can encourage persons to
	make malicious use of knowledge
Australia	Possible channels for (an integrated communications strategy) might include:
Pres 14/6 PM	a. Print media, including scientific journals and newsletters of professional societies;
	 b. Public relations activities, including a presence at events such as scientific conferences and industry conventions, distribution of brochures, stickers, posters, as well as poster or oral presentations or video displays;
	c. Collaborative promotions that encourage companies, professional societies or other relevant bodies to become involved in disseminating the message; and
	d. web links and shared internet resources, which are a powerful tool in the
	provision of educational material accessible to teachers in high schools, or
	safety officers in research and commercial establishments.
Russia	to raise public awareness of the BTWC goals and objectives, administrative
Stat WP.19	and criminal responsibility for violations of its provisions byusing widely
	electronic communications means, including the internet
Bulgaria	work out a program for an active media policy in order to make the scientists
Stat 14/6 AM	to think much more about their responsibilities and obligations working with
	biological and toxic materials or in research projects leading to results with real
	or potential harmful effect on humans, animals and plants
Pakistan	The enormous power of the media should be used to enhance public awareness
Stat 22/6 AM	about the codes
Australia	It may also be helpful to establish procedures at the national level whereby
Pres 14/6 PM	those concerned about possible dual-use applications can seek guidance and
	report any concerns, including whistle-blowing on suspicious activities.
The Roval	it might be necessary to have a nominated person to deal confidentially with

The Royal	it might be necessary to have a nominated person to deal confidentially with
Society	any queries relating to 'dual use' concerns. Internationally, an individual might
Pres 20/6 AM	turn to the International Union of Microbiological Societies, International
	Council for Science or the International Committee of the Red Cross.
United States	Create avenues for individuals or organizations to report concerns
Pres 20/6 PM	

Australia Pres 14/6 PM	Committees already in place to evaluate research projects on their scientific quality could be expanded to provide a vehicle to consider ethical aspects of research, including the potential for the results to be misused by terrorists or States in the development of BW.
Australia Pres 14/6 PM	Utilise mechanisms already in place for maintaining oversight of safety aspects of scientific work within the institution to also monitor biosecurity aspects of the work

Australia Pres 14/6 PM	Consider the risk that a particular line of research might be misused in BW applications. In many organizations, institutional review bodies already exist for assessing research proposals and the role of these could be expanded to also consider any risks arising from the dual-use nature of the work. In order to take into account changes in research direction or the emergence of unexpected
	results, risk assessment of research project should be ideally be undertaken both prior to the commencement of a project, and at regular intervals throughout the life of a project.
ABPI Pres 16/6 AM	Utilise existing regulatory frameworks to monitor activities
Canada WP.5	By incorporating ethical and risk assessments of proposed microbiological work within existing institutional body doing similar work, the mission and goals could be harmonized.
Germany WP.12	Many States issue licenses or permits to scientists allowing research in the areas of genetic engineering and work with pathogenic microorganisms. In this regard, the awarding of a license or permit should be contingent upon receiving instruction about the content of the Biological Weapons Convention and the obligations of the scientist under this treaty, as well as instruction about ethical decision-making and risk assessment processes. Receiving a permit should further be contingent upon signing a code of conduct.
Russia WP.19	The consideration of the possible consequences of the scientific misuses could be encouraged by analyzing problems in the scientific councils or in the bioethical commissions of research institutes
Australia Pres 14/6 PM	In addition to any avenue available at national level, institutions may wish to establish internal procedures whereby those concerned about possible dual-use applications can seek guidance and report any concerns, including whistle- blowing on suspicious activities
India Pres 15/6 PM	Establishment, in universities and other scientific institutions, of procedures to monitor research activities and mechanisms to prevent dissemination of information that may be utilized for bioterrorism
United States Pres 20/6 PM	Establish review boards for proposals and publications
Canada Pres 21/6 AM	(Oversight measures should be) independent of government, (ensure) transparency (and be) far reaching in its mandate
Canada WP.5	The keystone to open reporting is the establishment of a trusted institutional body to which concerns can be communicated.
Russia Pres 14/6 AM	Establishing bioethics commissions in both public and private scientific organizations could be considered as a possible solution to the problem of adopting ethic(al) norms for scientists
DNV Pres 16/6 AM	Guidance and codes of practice may be useful but it is still the organization's responsibility to manage risks
United States Pres 16/6 PM	(In biodefence programmes) interviews and surveillance by supervisors, workers and self reporting to enhance/ ensure reliability and highest level of personnel conduct
Libya Int 21/6 PM	it is necessary for us to support the constitution of national committees for ethics in science and life sciences

Nigeria Stat 15/6 PM	Life sciences research projects should systematically be evaluated by peers and funding bodies. This evaluation should not only be on scientific quality, but also on ethical aspects, including the potential for use of result for hostile purposes
Japan Pres 21/6 AM	To incorporate the viewpoint of 'preventing abuse/ misuse of science and technology' into peer review process may be acceptable, effective and practical means for scientists
Canada Pres 21/6 AM	Peer based local oversight (is) key

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Australia	Implementation (considerations include)
Pres 20/6 PM	• relevance of the Code to a wide range of disciplines
	• formal structures for reviewing research may create contestation and
	regulation from above that is inimical to a voluntary code
	• weak links in the chain of compliance
	• lack of acceptance or ignorance among those who really count
	information and raising awareness
	• creating a culture of commitment to appropriate use and access
Russia	the most efficient way to ensure the effective implementation of the
Pres 14/6 AM	Convention bans at the national level is to develop and adopt an appropriate
	national legislation, including penal legislation
Australia	States may also wish to consider establishing a national body to consider and
Pres 14/6 PM	advise on particular difficult issues in respect of the potential misuse of
	scientific knowledge, materials or equipment by terrorists or states for
	biological weapons applications.
The Royal	The Society strongly advocates the formation of a properly resourced
Society	international scientific advisory panel supporting the BTWC
Pres 20/6 AM	
Sweden	An international scientific advisory panel could serve as a capacity building
Int 21/6 PM	mechanism.
The Royal	Using the relevant international scientific organisations to provide scientific
Society	input to the BTWC would be another way of encouraging appropriate
Pres 20/6 AM	oversight, with the International Council for Science (ICSU) and the
	International Union of Microbiological Societies (IUMS) being well placed to
	take this forward.
AAAS	Evaluation should focus on both process and outcomes. The former assess the
Pres 20/6 PM	impact of the initiative
AAAS	Scientists preferred implementation through professional organizations or
Pres 20/6 PM	societies rather than government
Russia	The government on its part should supervise their (research funding
WP.19	organizations) operation in accordance with its BTWC obligations
AAAS	Adoption of a code does not guarantee its usefulness to researchers and
Pres 20/6 PM	others Hence, the code should be viewed as only part of a larger effort to
	promote responsible research

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Iran	Code of conduct for scientists may provide a tool nationally adopted by each
Pres 21/6 AM	State Party to the Convention in implementation of its obligations under the
	Convention and in accordance with its constitutional process and put into force
	within its territory
Republic of	The widespread adoption of codes of conduct, codes of practice or codes of
Korea	ethics by all related sectors, such as biotechnology and life sciences, will
Stat 13/6 AM	provide very concrete and solid ground from which useful best practices can
	emerge.
China	A code of conduct or ethic(al) regulations should be adopted and implemented
Pres 14/6 AM	to educate, supervise and regulate scientists' behaviour in order to prevent
	achievements in their research from being abused or misused intended or
	unintended. This the integration of discipline and self-discipline could be
	realized
СВ	Importance of the research institution in developing accountability - 'if the
Pres 15/6 AM	university says, These are the rules, and you're going to live by them if you're
	going to work here, and you better do the best you can, then we start to believe
	them.
Cuba	it is necessary to recognise that the most appropriate body to ensure the
Int 20/6 AM	provisions of activities that do not serve peaceful purposes is indeed with the
	Biological Weapons Convention
DNV	Encourage oversight of science-based activities (through) set(ting)
Pres 16/6 AM	explanations, communicate them and monitor performance
DNV	Ensure funding agencies have effective policies forbidding awards to
Pres 16/6 AM	organizations unless they can demonstrate that the expectations placed upon
	them have been met
China	Strengthen and improve the adoption and implementation of the code of
Pres 14/6 AM	conduct, and make the existing code to be aware, accepted and complied by
	more personnel in the scientific community
United	The most appropriate promulgation and adoption strategy will depend on the
Kingdom	content and the 'ownership' of a particular code: for example, the strategy of
WP.9	government in relation to government-science may be different to the strategy
	of a professional body, or representatives of industry.
United	Each community or stakeholder will develop its own plan for encouraging
Kingdom	adoption. It may, however, include: setting a deadline for adoption by a
WP.9	professional organization; consideration of the code at an annual meeting;
	making adherence to a code a condition of supply to manufacturers; including
	information about any codes in education and training programmes; or
	amending agreements with contractors and other activities that may be funded
	by government, research or charitable foundations, or other bodies.
China	the behaviours of physicians are also under the supervision of public
Pres 15/6 PM	opinions.

Annex II

LIST OF DOCUMENTS OF THE MEETING OF EXPERTS

Symbol	Title
BWC/MSP/2005/MX/1	Provisional Agenda for the Meeting of Experts
BWC/MSP/2005/MX/2	Provisional Programme of Work for the Meeting of Experts
BWC/MSP/2005/MX/3	Report of the Meeting of Experts
BWC/MSP/2005/MX/INF.1/Summary	Existing Codes of Conduct which Refer to Biological and Toxin Weapons
	Summary of Background Paper prepared by the Secretariat
BWC/MSP/2005/MX/INF.1 [ENGLISH ONLY]	Existing Codes of Conduct which Refer to Biological and Toxin Weapons
	Background Paper prepared by the Secretariat
BWC/MSP/2005/MX/INF.2/Summary	Codes of Conduct Relevant to the Life Sciences or Biotechnology which do not Refer to Biological and Toxin Weapons
	Summary of Background Paper prepared by the Secretariat
BWC/MSP/2005/MX/INF.2 [ENGLISH ONLY]	Codes of Conduct Relevant to the Life Sciences or Biotechnology which do not Refer to Biological and Toxin Weapons
	Background Paper prepared by the Secretariat
BWC/MSP/2005/MX/INF.3/Summary	Review and Analysis of Relevant Elements of Existing Codes of Conduct in Other Fields
	Summary of Background Paper prepared by the Secretariat
BWC/MSP/2005/MX/INF.3 [ENGLISH ONLY]	Review and Analysis of Relevant Elements of Existing Codes of Conduct in Other Fields
	Background Paper prepared by the Secretariat

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BWC/MSP/2005/MX/INF.4* [ENGLISH ONLY]	Relevant Organisations, Associations, Professional Bodies and Institutions Which Might Serve as Sources of Guidance on the Formulation of Codes of Conduct and as Agents for Adopting and Promulgating Such Codes
	Background Paper prepared by the Secretariat
BWC/MSP/2005/MX/INF.5 [ENGLISH ONLY]	List of States Parties to the Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on their Destruction, as at June 2005
	Prepared by the Secretariat
BWC/MSP/2005/MX/INF.6 [ENGLISH / FRENCH / SPANISH ONLY]	List of Participants
BWC/MSP/2005/MX/CRP.1 [ENGLISH ONLY]	Draft Report of the Meeting of Experts
BWC/MSP/2005/MX/MISC.1 [ENGLISH / FRENCH / SPANISH ONLY]	Provisional List of Participants
BWC/MSP/2005/MX/MISC.2	Normas de Ética de la Asociación Física Argentina
[SPANISH ONLY]	Presentado por Argentina
BWC/MSP/2005/MX/MISC.3 [ENGLISH ONLY]	The Avicenna Prize For Ethics In Science
	Prepared by the Islamic Republic of Iran
BWC/MSP/2005/MX/MISC.4 [ENGLISH ONLY]	Presentations Submitted by the United States

The following working papers are available in English only unless otherwise specified

BWC/MSP/2005/MX/WP.1	Preliminary Overview of an International Code of Conduct Related to the Biological Weapons Convention
	Prepared by Argentina
BWC/MSP/2005/MX/WP.2	Common Elements of Codes of Conduct (I): Canadian Government Codes
	Prepared by Canada
BWC/MSP/2005/MX/WP.3	Common Elements of Codes of Conduct (II): Professional Association Codes
	Prepared by Canada
BWC/MSP/2005/MX/WP.4	Common Elements of Codes of Conduct (III): Academic Codes
	Prepared by Canada
BWC/MSP/2005/MX/WP.5	Biodefence: Codes of Conduct and Practice
	Prepared by Canada
BWC/MSP/2005/MX/WP.6	Thoughts on the Functions of Codes of Conduct: Potential Weaknesses and Solutions
	Prepared by Canada
BWC/MSP/2005/MX/WP.7 and Corr.1	The Overlap Between Codes of Conduct and Legislation
	Prepared by Canada
BWC/MSP/2005/MX/WP.8	Content of Codes of Conduct Relevant to the BTWC
	Prepared by the United Kingdom

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BWC/MSP/2005/MX/WP.9	The Promulgation and Adoption of Codes of Conduct
	Prepared by the United Kingdom
BWC/MSP/2005/MX/WP.10	German Policies for Biodefence Research
	Prepared by Germany
BWC/MSP/2005/MX/WP.11	Regulations for the Prevention of Bioterrorism – Pros and Contras from a Scientist's Point of View
	Prepared by Germany
BWC/MSP/2005/MX/WP.12	Codes of Conduct and their Application in the Life Sciences at Universities
	Prepared by Germany
BWC/MSP/2005/MX/WP.13	The University Science Perspective
	Prepared by Germany
BWC/MSP/2005/MX/WP.14	Infectious Diseases, Biosafety and Biosecurity
	Prepared by Germany
BWC/MSP/2005/MX/WP.15	Legislation and Freedom of Research
	Prepared by Germany
BWC/MSP/2005/MX/WP.16	Report of Seminars Organised by the Foreign And Commonwealth Office
	Prepared by the United Kingdom
BWC/MSP/2005/MX/WP.17	United Kingdom Examples of Codes of Conduct and Associated Activities Related to Government Science
	Prepared by the United Kingdom
BWC/MSP/2005/MX/WP.18	Some Reflections on the Ethic Norms and Codes of Conduct for Scientists Majoring in Biosciences
	Prepared by the Russian Federation

BWC/MSP/2005/MX/WP.19	Answers to the Questions Regarding Codes of Conduct for Scientists Majoring in Biological Sciences
	Prepared by the Russian Federation
BWC/MSP/2005/MX/WP.20*	China's Views and Practices in Adopting and Implementing Code of Conduct of Scientists
	Prepared by the People's Republic of China
BWC/MSP/2005/MX/WP.21	Codes of Conduct for Scientists: Discussions in Japan on the Issue
	Prepared by Japan
BWC/MSP/2005/MX/WP.22	Codes of Conduct for Scientists: A View from Analysis of the Bioindustrial Sectors in Japan
	Prepared by Japan
BWC/MSP/2005/MX/WP.23	Indian Initiatives on Codes of Conduct for Scientists
	Prepared by India
BWC/MSP/2005/MX/WP.24	Bioethics Related Activities in Indonesia
	Prepared by Indonesia
BWC/MSP/2005/MX/WP.25	'Codes' in the Context of the BTWC
	Prepared by South Africa
BWC/MSP/2005/MX/WP.26	The Content, Promulgation and Adoption of Codes of Conduct for Scientists
	Prepared by the Islamic Republic of Iran
BWC/MSP/2005/MX/WP.27	Ethical Principles in Gene Technology, Environmental Ethics and the Biological Weapons Convention — Is there a Link?
	Prepared by Australia

BWC/MSP/2005/MX/3 Page 50

BWC/MSP/2005/MX/WP.28	Elements for Use in Developing Codes of Conduct for Scientists
	Prepared by Australia
BWC/MSP/2005/MX/WP.29	Raising Awareness: Approaches and Opportunities for Outreach
	Prepared by Australia
BWC/MSP/2005/MX/WP.30	Selected Canadian Codes of Conduct for Life Sciences
	Prepared by Canada
BWC/MSP/2005/MX/WP.31	Códigos Y Principios
[SPANISH ONLY]	Presentado por la República de Cuba
BWC/MSP/2005/MX/WP.32 [SPANISH ONLY]	Experiencia Nacional Sobre la Promulgación de Códigos
	Presentado por la República de Cuba
BWC/MSP/2005/MX/WP.33	Approach to Codes of Conduct
	Prepared by the Republic of Korea
BWC/MSP/2005/MX/WP.34	Codes of Conduct for Biological Scientists
	Prepared by Italy
BWC/MSP/2005/MX/WP.35	Codes of Conduct for Scientists: Considerations During a BWC Regional Workshop and Subsequent Considerations
	Prepared by Australia