Meeting of Experts on Updating the List of Occupational Diseases

Geneva
13-20 December 2005

Report

Introduction

1. At its 291st Session (November 2004), the Governing Body of the International Labour Office decided to convene a Meeting of Experts on Updating the List of Occupational Diseases. The Meeting was held in Geneva from 13 to 20 December 2005.

Agenda

2. The agenda of the Meeting, as approved by the Governing Body, was as follows:

   Examination and adoption of an updated list of occupational diseases which will replace the list of occupational diseases included in the Annex to the List of Occupational Diseases Recommendation, 2002 (No. 194).

Participants

3. Thirty experts were invited to the Meeting. Ten of these were appointed after consultations with the Governments of Australia, Canada, Chile, China, France, Italy, Russian Federation, Senegal, South Africa and Thailand. Ten were appointed after consultations with the Employers’ group and ten after consultations with the Workers’ group of the Governing Body. The Meeting was also attended by the representatives of the World Health Organization (WHO), the European Commission (EC), the International Organisation of Employers (IOE), the International Confederation of Free Trade Unions (ICFTU), the International Commission on Occupational Health (ICOH), the International Social Security Association (ISSA) and the International Council of Nurses (ICN).

4. The list of participants is annexed to this report.

Opening address

5. Ms. Sally Paxton, Executive Director of the Social Dialogue Sector, ILO, opened the Meeting and welcomed all participants on behalf of the ILO Director-General, Mr. Juan Somavia. She conveyed the greetings of Mr. Assane Diop, Executive Director of the Social Protection Sector, who was unable to attend the Meeting during the first week but would do so during the second. She expressed her deep gratitude to all participants for having
agreed to serve as experts in the Meeting, acknowledging their great wealth of experience and knowledge on the subject of occupational diseases. She also welcomed observers from the above international organizations, thanking them all for their interest in the Meeting and their willingness to make a contribution to its work.

6. She emphasized the ILO’s role in promoting decent work, that is productive work where rights were protected, adequate income was generated and social protection provided. However, work-related hazards existed in almost all occupations, with traditional hazards continuing but also with new ones emerging, such as those from new chemicals, musculoskeletal hazards from rapidly expanding computer use, violence and mobbing.

7. Diseases caused by work had to be recognized so that their victims would be properly compensated and measures taken to improve working conditions and prevent recurrences. New physical, chemical, biological and psychosocial factors affecting workers’ health were increasingly being identified, and the number of occupational diseases now included in various national compensation schemes had seen a steady increase in recent years. Within this changing framework, it was necessary to review the list of occupational diseases regularly and to add those newly identified as occupational in order to maximize the effectiveness of preventive strategies and appropriate compensation schemes. Finally, she reminded participants that they had been appointed as individual experts, serving in their own personal capacity and not representing any governments, groups or other interests.

Election of the Chairperson and Reporter

8. Mr. Wayne Creaser, the expert nominated by the Government of Australia, was unanimously elected as Chairperson of the Meeting. Dr. Chaiyuth Chavalitnikul, the expert nominated by the Government of Thailand, was unanimously elected as Reporter of the Meeting.

Presentation of the working documents

9. Dr. Jukka Takala, Director of the InFocus Programme on Safety and Health at Work and the Environment (SafeWork) and representative of the ILO Director-General, presented the working documents. Preparing for the updating of the list of occupational diseases had been an arduous task because of the complexity of the medical, technical, administrative and legal aspects, and it had not been easy to propose a universal solution. The Office had received replies to the questionnaire from constituents in more than 80 member States, and these had provided a solid basis for the Office to make proposals. The new list of occupational diseases established at this Meeting would be submitted to the Governing Body for its approval at its 295th Session in March 2006, and once approved would replace the list of occupational diseases annexed to Recommendation No. 194.

10. Dr. Shengli Niu, Senior Specialist on Occupational Health, of SafeWork, and deputy representative of the Director-General, introduced the subject of occupational diseases. He described different occupational risk factors and traced the development of ILO standards on occupational diseases. He presented to the Meeting the ILO Recommendations (Nos. 3, 4, 121 and 194), Conventions (Nos. 18, 42 and 121) and Protocol, 2002, relevant to the list of occupational diseases. He explained the mechanisms embodied in Convention No. 121 and Recommendation No. 194 for updating the list of occupational diseases. He emphasized that the definition of occupational diseases is usually spelled out in national legislation and drew the attention of the Meeting to the definitions of occupational diseases prescribed in Recommendation No. 121 and Protocol of 2002.
11. It was important to update the list of occupational diseases regularly in view of the emerging risk factors, improvement of diagnostic techniques and increased recognition of occupational diseases at the national and international levels. To provide the basis for the work of this Meeting, the Office had reviewed the international scientific development in identification of occupational diseases and had analysed about 50 of the most up-to-date national and other lists of occupational diseases including the 2003 European Schedule of Occupational Diseases. The Amendments to the list of occupational diseases submitted at the 2002 International Labour Conference and about 160 replies received to the Office questionnaires from more than 80 countries and several international organizations were reviewed. On this basis the Office felt it would not be appropriate to propose a change to the format of the current list of occupational diseases included in the Annex to Recommendation No. 194, but to introduce the following changes to the list:

- Chemical agents: add ammonia, isocyanates, pesticides and sulphur oxides.
- Physical agents: add a new item on radiofrequency radiations and introduce a few modifications to the existing items.
- Biological agents: add tetanus, brucellosis, hepatitis B and C viruses, tuberculosis and human immunodeficiency virus (HIV).
- Target organ systems: add a section on mental and behavioural disorders and a few specific items under the sections of musculoskeletal disorders and skin diseases.
- Occupational cancer: add arsenic, beryllium, cadmium, erionite, ethylene oxide, formaldehyde, silica, hepatitis B and C viruses.

12. Dr. Niu summarized the contents of the three working documents prepared for the work of the Meeting: the Report on the replies to the questionnaire (MEULOD/2005/1), the Amendments submitted during the International Labour Conference 2002 (MEULOD/2005/2) and the Technical background document (MEULOD/2005/3), which gave the technical justification for the new and modified items in the proposed list. He emphasized the importance of the key criteria for the proposed list, namely having an adequate scientific basis (the strength of exposure-effect relationship and the magnitude of the risk factors) and the recognition of such diseases within national lists or the majority views of ILO constituents in their replies to the questionnaire.

Opening statements

13. The representative of the WHO said that updating the list of occupational diseases was important to the WHO since it was instrumental in improving public health and that the WHO would continue to work with the ILO on this issue. The representative of the EC informed the Meeting that the European Union had adopted an updated list of occupational diseases in 2003 which was non-binding. He said that new and emerging diseases were added and, at the current time, new diagnostic procedures for occupational diseases were being developed. The representative of the ICOH said it was important to find new ways of diagnosing and monitoring occupational diseases with the aim of preventing them. He also said that a mechanism for updating the list more regularly should be discussed, and that his organization would fully collaborate with the ILO in this process.

14. One Worker expert considered that far too few workers’ organizations had been consulted on the questionnaire. He understood that the proposed list was restricted to only those diseases where occupational connections were evident, and thus excluded many other diseases that might be work-related, and offered to work with the ILO in expanding the list.
General discussion

15. Employer experts considered that the list would provide a good basis for prevention purposes, but not both prevention and compensation. If compensation were the objective, the list would be insufficient as no definitions and causes were given. Concern was expressed about new and emerging diseases and that mechanisms should be explored to allow for the list to be updated more regularly.

16. Worker experts pointed out that the list in its present form would be quite difficult to use, especially for compensation, and suggested that a database be created that linked health effects with agents and occupations. Further guidance and definitions were therefore needed.

17. An Employer expert considered that for the list to be applied in all countries, it should take into account different national situations and legislative frameworks, especially in the area of compensation. He said the factors and agents that caused disease had to be identified, and expressed concern at making the list longer as this would make it less flexible. Another Employer expert said that causative factors had to be defined and that occupations and effects had to be documented, especially in the cases where diseases had multi-causal agents.

18. Government experts welcomed the work of the ILO and described the situations in their own countries. Although the ILO framework was feasible, there were some important differences between the ILO list and some national ones. However, for any list to work satisfactorily, it was important to be supported by diagnostic criteria.

19. A Worker expert was concerned about the case of poultry workers and their exposure to avian influenza, an example of a disease for which a wealth of documents existed but for which no planning of potential impact had been undertaken.

20. An Employer expert considered that with three distinct aims of Recommendation No. 194, the overall intended outcome of the list was far from clear. The precautionary approach applied in France and North America, for example, showed the difficulty of establishing occupational causation and hence grounds for compensation. A Worker expert pointed out that the aim of the Meeting of Experts was to examine the list annexed to Recommendation No. 194, which has both preventative and compensatory elements. He stated that if the list was to be compensation-based, the diagnoses, causation and other criteria pertaining to each disease had to be made extremely clear.

21. Dr. Niu affirmed that the purpose of the Meeting was to update the list annexed to Recommendation No. 194, and Paragraph 2 of the Recommendation defines the role of the list of occupational diseases in the annex.

22. A Government expert considered that the proposed list, whilst positive in terms of prevention, might hinder tripartite agreement on compensation within member States as detailed guidance on its application was not included. In the “no-fault” system of South Africa, for example, workers needed simply to state that they had suffered exposure and obtain the agreement of the employer in order to be eligible for compensation. Physicians provided limited help as far as prevention and compensation was concerned because they were often unable to recognize diseases whose causation was occupational. Doctors therefore needed to be trained to recognize occupational diseases.

23. A Worker expert referred to chemical, physical and biological elements that might affect working conditions and suggested that governments might take steps to standardize the classification of such factors in order to improve prevention.
24. Dr. Niu thanked previous speakers and stated that their opinions might form the basis of subsequent practical guidance provided to member States. With regard to diagnostic criteria, the situation in member States had been reviewed and various countries already attached such criteria to their lists in order to ensure that these could function correctly.

25. The representative from the European Commission described the European Schedule of Occupational Diseases, which is included in a non-binding recommendation to member States; it also includes a series of specific preventative and compensatory recommendations. In addition, the European list was open-ended, enabling any other non-listed disease to be considered as occupational provided that causality could be demonstrated. Where doubts existed regarding causality for a particular disease, relevant information was incorporated in a second separate annex. Each Member State of the European Union was free to apply its own criteria depending on local specificities. Guidelines for diagnosis of diseases had been published and they were being updated, in order to facilitate a coherent implementation of the European list.

26. An Employer expert asked if specific recommendations could be provided for member States in terms of putting equal emphasis on prevention and compensation (as in the EU), since up until the present time, the focus had been on compensation. The Chairperson confirmed that, if appropriate, such recommendations could be included and asked for comments from the floor. Another Employer expert referred to Paragraph 2 of the List of Occupational Diseases Recommendation, 2002 (No. 194), and stressed the priority of prevention over compensation. Compensation could be awarded “if causation can be determined”. The Chairperson agreed that for the list to function successfully, it needed to be accompanied by guidance for use by member States and diagnosis criteria.

Examination of the proposed list

1. Diseases caused by agents

1.1. Diseases caused by chemical agents

27. Points 1.1.1 to 1.1.15 were accepted without comments.

28. Points 1.1.16 to 1.1.31. Employer experts commented that there was a mix in the agents listed, with some causing very serious problems, such as asphyxiants, and others that were mild irritants. There was some inconclusive discussion as to whether it was preferable to have a more generic classification or to name every substance in the list. One expert suggested adding platinum compounds to the list, and another the removal of “teeth” from point 1.1.22 on the grounds that this was too restrictive. The latter amendment was supported and agreed and point 1.1.22 now reads: “Diseases caused by mineral acids”.

29. The Office explained that the item on asphyxiants (1.1.16) is a replica of an item from the existing list appended to the Employment Injury Benefits Convention, 1964 (No. 121). Moreover, the current order of points on the list had been based on replies received from member States to the questionnaire.

30. Point 1.1.32 “Diseases caused by ammonia”. All experts supported the inclusion of this point and it was accepted.

31. Point 1.1.33 “Diseases caused by isocyanates”. The Worker experts commented that technical background for this point could be strengthened, adding that much research had been done recently on secondary exposure of isocyanates and preventive measures. The
Office confirmed the serious hazards from isocyanates and asked for details of this research. Experts generally agreed to the inclusion of this point, and it was accepted.

32. Point 1.1.34 “Diseases caused by pesticides”. The Worker experts supported the inclusion of this point, as it was such a major issue for workers’ health. Other experts agreed but thought it would be better to specify certain families of pesticides, or that more detailed definitions were required in the technical background paper. The representative from the WHO warned of the danger of specifying certain compounds, as pesticides were intentionally toxic and were frequently changed to ensure effectiveness. Several experts thought that the general term “pesticides” was suitably broad and was thus more useful as it was. Experts agreed to the point as written and it was accepted.

33. Point 1.1.35 “Diseases caused by sulphur oxides”. This was supported and agreed.

34. The Worker experts proposed the inclusion of a new point “Diseases caused by organic solvents” in the list. Studies in the Nordic countries had shown that painters exposed to organic solvents experienced not only skin and respiratory diseases, but also diseases to the central nervous system. By banning the use of organic solvents, the number of cases had dropped from 80 per year to five per year over a 15-year period, a good example of preventive medicine.

35. The Employer expert from France agreed about the toxicity of organic solvents. This had been accepted by the European Union and the substances were now included in Annex I of the EU list. However, he voiced concern about adding cognitive effects caused by organic solvents, as these would be quite difficult to substantiate. He warned that the addition should be carefully worded so as to take into account different situations in the world, and not just the EU one. Conversely, other experts stated that there was convincing evidence of the value of cognitive function testing for the identification of central nervous system damage by organic solvents. The representative of ICOH added that some workers were found to have been exposed to more than 30 organic solvents during the course of a workday. He described a study of a group of painters, whose quality of life had deteriorated significantly compared to a similar group of carpenters in the same time period and who had not been exposed to organic solvents. It was agreed to add “Diseases caused by organic solvents” to the list.

36. The Employer experts proposed the addition of “Diseases caused by platinum or its compounds” to the list, since platinum and its compounds were very allergenic and caused both dermatitis and asthma. Experts generally supported this addition, and it was agreed.

37. The Worker experts proposed the addition of “Diseases caused by latex or latex containing products” to the list, since it had been proven that latex caused not only skin diseases, but asthma and upper respiratory tract diseases as well. An Employer expert agreed with the addition, and said that rhinitis was also caused by latex, especially to workers in the latex industry. Experts generally supported this addition, and it was agreed.

38. An Employer expert questioned why only certain irritants (such as oxides of nitrogen, oxides of sulphur and ammonia) were included in the list. He suggested that maybe a general group, under the name of “Irritants” should be considered as an addition. He explained that this would allow for the future inclusion of irritants, as was agreed in the case for adding pesticides, and thus serve prevention efforts better. The Chairperson explained that the substances mentioned above were not only irritants, but also corrosive in nature, as could be seen in the technical backgrounder document.

39. The Chinese Government expert proposed adding two new items, namely “Diseases caused by trichloroethylene” and “Diseases caused by chlorine”. The Worker experts voiced their support for these additions, but proposed the more general heading “Diseases
caused by chlorinated compounds”. An Employer expert said that the term “halogen derivatives” was used in France; this was a big family of substances, and had many diseases in common. He said that in France, when dealing with halogen derivatives, the specific disease was considered. He said the task would also be more difficult if one were to look at carcinogens as all the derivatives were not considered as carcinogens according the International Agency for Research on Cancer (IARC) list.

40. A Worker expert pointed out that diseases caused by trichloroethylene were already included in the current list of occupational diseases under item 1.1.11 “Diseases caused by the toxic halogen derivatives of aliphatic and aromatic hydrocarbons”, which included trichloroethylene. Other experts agreed that this was already covered and so this specific proposal was dropped.

41. Several experts supported the inclusion firstly of “Diseases caused by chlorine” and secondly of “Diseases caused by nickel or its compounds”, and these were included in the list. The latter would be placed in the list alongside diseases caused by other metals.

42. Point 1.1.36 “Diseases caused by any other chemical agents not mentioned in the preceding items 1.1.1 to 1.1.35 where a link is established between the exposure to these chemical agents arising from work activity and the disease contracted by the worker”. Experts differed in their views as to the usefulness and the purpose of including this and other so-called “catch-all” points in the list. Some Employer experts considered that very precise descriptions in the lists were vital, with strong and proven links between exposure and disease, while Worker experts and some Government experts believed that such general points were necessary to allow future inclusion of newly discovered diseases. In view of these polarized views, it was agreed that this item should be dealt with together with the open items in other sections later in the proceedings.

1.2. Diseases caused by physical agents

43. Points 1.2.1 and 1.2.2 were accepted without comment. There was general agreement to point 1.2.3 “Diseases caused by work in compressed and decompressed air” and this was accepted for inclusion in the list. Point 1.2.4 was also accepted without comment.

44. Point 1.2.5 “Diseases due to radiofrequency radiations”. Discussion focused on the scientific basis for this point, with several Employer experts claiming that there was a lack of medical knowledge about the effects of such exposures and difficulties in diagnosis. Dr. Niu said that there had in fact been a lot of support for including this point in the text in the replies to the Office’s questionnaire. With the current controversy over risks from electromagnetic fields (EMF), the Office instead proposed radiofrequency radiations for inclusion in the list as there was well-established scientific data on the effects of radiofrequency radiations on workers. Several experts mentioned the proven thermal effects of such radiation, which resulted in tissue damage in humans such as cataracts and other diseases such as male infertility. It was pointed out that the WHO and the International Commission on Non-Ionizing Radiation had data on the effects of such radiation.

45. An Employer expert proposed an amendment to the point so that it read “Diseases due to thermal effects of radiofrequency radiation”. However, it was pointed out that this would exclude diseases that may be caused by non-thermal effects of radiofrequency radiations. After much discussion, the amendment was withdrawn and the original Office text was accepted for inclusion in the list.

46. Point 1.2.6 “Diseases caused by optical (ultraviolet, visible light, infrared) radiations”. Several Employer experts were concerned about the practical difficulties of distinguishing
between occupational and non-occupational exposure, for example to ultraviolet radiation, and assessing occupational exposure. An employer might be able to assess risks from artificial radiation, but it would be impossible to assess risks from natural radiation – for example, the risk of malignant melanoma from sunlight, to which workers may be exposed while on vacation.

47. The representative from the European Commission said that the equivalent European list only included cataracts caused by heat radiation and conjunctivitis caused by ultraviolet radiation. The preference of the EC was to have all optical radiation risks covered by a new Community directive and he welcomed the Office text. Government and Worker experts generally supported the text too, and the point was accepted for inclusion in the list.

48. Point 1.2.7 “Diseases caused by extreme temperature”. It had been proposed to shorten the text based on an amendment tabled at the International Labour Conference in 2002 by removing two illustrative examples – a simplification welcomed by Worker and several Government experts. Employer experts asked for further clarification of the term “extreme temperature”, adding that dryness, humidity, radiation, airflow and duration of exposure all had to be taken into account. Dr. Takala explained that temperature limits or criteria would not be laid down but asked delegates to provide written examples and observations for inclusion in the report, as these could prove useful in future. After further discussion, the Office text was agreed and the point was accepted for inclusion in the list.

1.3. Diseases caused by biological agents

49. Point 1.3.1 “Brucellosis”. Experts agreed that many diseases had been identified as being caused by biological agents, but it was wise to keep this list of occupational diseases relatively short. There was broad support for brucellosis and the other four diseases to be included, therefore, as these were particularly common and significant ones, especially in agricultural and healthcare-related occupations.

50. The Government expert from Italy said that in Italy the proposed items in this section were classified as accidents, since they were caused by single sudden events rather than over prolonged periods. If a disease appeared a long time after the exposure, this had to be verified based on established clinical and legal criteria. In this way it was possible not only to recognize those diseases included in the list but also other diseases not on the list.

51. There was general support for the Office position and brucellosis was accepted for inclusion in the list.

52. Point 1.3.2 “Diseases cause by hepatitis B virus (HBV) and C virus (HCV)”. Discussion centred on whether the Office text should be expanded to include hepatitis A, D and E, or whether it should be shortened so as implicitly to include all forms of hepatitis. Three proposed amendments were suggested. The first was just to include reference also to hepatitis A, which was known sometimes to have occupational causes, such as amongst sewage workers; the omission of hepatitis A might imply that it had been expressly omitted. The second amendment was to include reference to hepatitis A, D and E, which were all known strains of the disease.

53. The third amendment was simply to refer to hepatitis without further qualification. The representative of the WHO suggested modifying this amendment again so as to read “viral hepatitis”. This matched the wording of the International Classification of Diseases and was also a useful general term given that the family of hepatitis viruses was growing all the time. It was suggested that a more accurate term would be “non-malignant diseases caused by hepatitis viruses”, but Dr. Niu explained that adding “non-malignant” would cause problems for other points in the list. Experts preferred the term “diseases caused by
hepatitis viruses” to the other suggested amendments, and this term was accepted for inclusion in the list.

54. Point 1.3.3 “Diseases caused by HIV”. There was general support for this point on the grounds that it would help to focus on the occupational aspects of HIV and hopefully strengthen prevention and protection and, where appropriate, compensation. Worker experts emphasized that health workers were not the only ones who were exposed to HIV risks, but fire and rescue workers, prison staff and others were also at risk. Dr. Takala added that the Office programme on HIV/AIDS, indeed, covered a wide range of employment sectors. The text was accepted for inclusion in the list.

55. Point 1.3.4 “Tetanus”. There was general support for the Office text. Tetanus was a widespread problem, especially affecting agricultural workers, and was preventable. Tetanus was accepted for inclusion in the list.

56. Point 1.3.5 “Tuberculosis”. There was general support for the Office text and tuberculosis was accepted for inclusion in the list.

57. The Chairperson asked for other proposals for this section on biological agents. The representative from the WHO proposed the inclusion of “Toxic (inflammatory) syndromes, such as inhalation fever, toxic pneumonitis, organic dust syndrome associated with exposure to bacterial and fungal contaminants – endotoxins, mycotoxins, (1->3)-B-D-glycans”. The rationale for the proposal was to ensure that there was scope to add other biological agents (such as proteins) that were not bacterial or viral that caused disease.

58. Some experts welcomed the proposal while others made suggestions for further changes to the text, including shortening it to just “Organic toxic dust syndrome”. After much discussion, the text “Toxic or inflammatory syndromes associated with exposure to bacterial and fungal contaminants” was accepted for inclusion in the text.

59. Malaria and anthrax were also proposed as additions to the list, and the representative of the WHO proposed two more, namely SARS and avian flu, explaining that nearly 40 per cent of all cases of SARS were occupational, as were most cases of avian flu. Several experts expressed fears about adding more and more diseases to the list, overburdening it, but certain well-known diseases could be added, where justified. Anthrax was agreed as appropriate for inclusion, but several experts expressed doubts about malaria, saying that it was considered to be endemic in some countries and therefore could not be classed as an occupational disease.

60. The Government expert from South Africa spoke strongly in favour of including malaria, because of the risks faced by game park workers and others where exposure to malaria was related to their work. However, other experts thought that it would be extremely difficult to diagnose occupationally caused cases of malaria, especially in those countries where a large percentage of the population was already infected. Several experts spoke in favour of having malaria in the list in order to promote prevention, while others warned that the list of occupational diseases would be used for compensation purposes as well. An Employer expert said that workers should be compensated if justified, but he also agreed with other experts that it would be extremely difficult for employers to justify compensating workers with malaria in malaria-infested regions. He emphasized that the list of occupational diseases must not lose its character, and that including malaria on the list did not relieve national authorities from their public health responsibilities. Several experts agreed that it was a question of proving occupational, as opposed to non-occupational exposure. Nevertheless, it was felt that including malaria in the list would help to encourage preventative programmes. Malaria was therefore accepted for inclusion in the list of occupational diseases.
61. There had been a proposal to include leptospirosis in the list too. The Employer experts warned the Meeting about the danger of introducing new items on an ad hoc basis without proper technical background information. Diseases that were both occupationally and non-occupationally caused needed to be properly assessed and the list of occupational diseases should be kept to a manageable size. The Employers requested to have their concerns recorded. Leptospirosis was accepted for inclusion in the list, but discussion about other additions to the list, including SARS and avian flu, was deferred till later in the proceedings.

2. Diseases by target organ systems

2.1. Occupational respiratory diseases

62. Point 2.1.1 “Pneumoconioses caused by sclerogenic mineral dust (silicosis, anthracosilicosis, asbestosis) and silicotuberculosis, provided that silicosis is an essential factor in causing the resultant incapacity or death”. The Government expert from South Africa sought clarification as to the use of the term “sclerogenic” as it was old-fashioned and he proposed replacing it with “fibrogenic”. He proposed a new text that was later amended to read: “Pneumoconioses caused by fibrogenic and non-fibrogenic mineral dusts” and for silicotuberculosis to be dealt with as a separate point. Several experts were concerned about the loss of detail in the proposed amendment, which was important given the seriousness of these risks.

63. After further discussion, Dr. Niu explained that this point had been taken from Schedule 1 of the Employment Injury Benefits Convention, 1964 (No. 121). Given this, several experts said they preferred staying with the Office text, provided that it was copied exactly from the 1964 Convention. However, the Government expert from South Africa said it was important that a Meeting of Experts should be able to apply current knowledge and technology and should not have to maintain items on a list just because they have been there for a long time.

64. Point 2.1.7 “Chronic obstructive pulmonary diseases”. Employer experts asked for further clarification of this point, upon which it was explained that the disease was caused by a variety of agents, which would make for a very long list. After some discussion, Employer experts asked for further details about causes to be included, but others considered that because multiple factors contributed to the disease, causal agents should not be added to the item. An Employer expert responded by saying that he had no problem at all with keeping this item while recognizing that both occupational and non-occupational causes existed for the disease.

65. Discussion then focused on the word “sclerogenic” and whether to delete it from the text of point 2.1.1, or to replace it with the synonymous term “fibrogenic” on the grounds that the latter word was more widely used nowadays. Experts generally agreed that it was important to distinguish between the fibrogenic mineral dusts, such as silica and asbestos, and non-fibrogenic mineral dusts, such as talc and graphite. Fibrogenic dusts tended to be aggressive, but were not always so and a disease caused by such dusts might be present in a mild form in its early stages; the issue was more one of detection. While there were advantages in retaining the long-established term “sclerogenic”, the term “fibrogenic” had the advantage in that it was associated with dusts that caused both early and late-stage cases of lung fibrosis.

66. There was general support for including both fibrogenic and non-fibrogenic mineral dusts, but as separate items, while retaining some specificity in the text. Silicosis and asbestosis were retained as examples of pneumoconiosis caused by fibrogenic mineral dust. There
was also agreement that the last part of the Office text for point 2.1.1 (from “provided” onwards) was too restrictive and should be deleted. The Chairman therefore proposed dividing the Office text for point 2.1.1 into three separate points, which after further amendment read follows:

- Pneumoconioses caused by fibrogenic mineral dust (silicosis, anthraco-silicosis, asbestosis);
- Silicotuberculosis;
- Pneumoconioses caused by non-fibrogenic mineral dust.

67. After further discussion, the above three points were accepted for inclusion in the list. A Government expert (South Africa) suggested that silicotuberculosis be studied at a later date, bearing in mind that tuberculosis could be viewed both as a disease and as a complication stemming from silicosis. The Chairperson proposed that the ILO study this at a later date, and his proposal was accepted.

68. An Employer expert pointed out that siderosis (point 2.1.6) is generally regarded as a benign form of pneumoconiosis and to move it immediately after the new point “Pneumoconioses caused by non-fibrogenic mineral dust” seemed to be more logical. This was accepted by the Meeting.

69. Point 2.1.8 “Diseases of the lung caused by aluminium”. There was recent evidence to show that exposure to aluminium dust could cause pulmonary disorders, particularly amongst aluminium welders and in the aluminium smelting industry where “pot-room asthma” was recognized. The suggested links between aluminium exposure and neurotoxic illnesses, that had symptoms similar to Alzheimer’s disease, were not so well established but research was continuing. Given the existing evidence for the respiratory effect of aluminium, point 2.1.8 was accepted for inclusion in the list. However, experts asked for this subject (including pot-room asthma) to be further reviewed by the ILO and for technical material to be produced for future revision of the list; this was agreed.

70. All other points under item 2, as per the Office text, were accepted for inclusion in the list.

71. There was a brief discussion about including rhinitis in the list, as this disease was similar to asthma. There was no common position about this, however, so it was agreed to add this item to an indicative list for future discussion.

2.2. **Occupational skin diseases**

72. All points under this heading were accepted for inclusion in the list.

2.3. **Occupational musculoskeletal disorders**

73. The list was generally welcomed as useful for aiding prevention of musculoskeletal disorders and also recording them, although there would inevitably be some problems in assessing occupational as opposed to non-occupational causes. All points under section 2.3 were accepted with little discussion, with two exceptions. The first exception was point 2.3.2 “Chronic crepitant tenosynovitis of hand and wrist due to repetitive movements …” etc., which was accepted with the removal of the word “crepitant”. The second exception was point 2.3.7 “Carpal tunnel syndrome”.

74. Employer experts questioned why point 2.3.7 was unqualified, unlike other points in section 2.3. Repetitiveness, rapidity of movement, force, vibration, temperature and
posture were all causal factors of carpal tunnel syndrome, and it would be useful to have more precise wording on this point. Other experts preferred to retain the Office text, and after much discussion it was agreed by most experts to accept “carpal tunnel syndrome” – without further wording – for inclusion in the list. It was also proposed that the Office would consider this subject again and review the medical literature available on the subject for a future discussion. Dr. Takala concurred with this proposal and asked all experts present to help the Office in moving the subject forward.

### 2.4. Mental and behavioural disorders

75. The representative from ICOH was asked to provide an introduction to this subject. He started by explaining the term “mobbing”, which had come to be used in some countries in recent years but was less commonly used (in an occupational context) elsewhere in the world. In the occupational context, “mobbing” implied some form of systematic harassment and stigmatization, either between a supervisor and a subordinate or between workers, and was characterized by a sense of unjust treatment. Victims of mobbing often suffered ill health, such as depression and post-traumatic stress, and they sometimes responded by violent behaviour.

76. Worker experts asked for clarification of the use of “psychosomatic” in point 2.4.2, concerning mobbing. Dr. Niu replied that, when preparing these proposals, the words “psychosomatic” and “psychiatric” had been used together as part of an attempt to harmonize the ILO list with the WHO International Statistical Classification of Diseases and Related Health Problems, 10th Revision (ICD-10). The two words were complementary, so the word “and” would be inserted into the text.

77. There was much subsequent discussion about the meaning of “mobbing” in an occupational context and how it could be diagnosed, since it was difficult to separate its occupational and non-occupational aspects. Although it was a new term to some countries, at least in an occupational context, the concepts behind it were familiar and different countries had different ways of dealing with the problems of mobbing as had been described – harassment, discrimination, workplace violence and other work-related stress – all of which were preventable. However, it was generally agreed that a shared understanding of the term was essential if the term was to be included in the list, and the Office was asked to produce more technical documentation on the subject.

78. Conversely, post-traumatic stress disorder was a recognized disease and was clearly understood internationally, although it was not included in the European Schedule of Occupational Diseases. A post-traumatic stress disorder resulted from an extremely violent or shocking event or series of events, and a wide range of workers might be affected, including police officers, emergency and rescue workers, firefighters and train drivers. Many post-traumatic stress disorders lasted for a considerable period of time. It was acknowledged that stress itself was not a disease but might lead to one, and that different individuals had different levels of vulnerability faced with the same type of stress. Experts asked for more technical background material on this topic, too.

79. The representative from the WHO emphasized that there was no health without mental health and noted furthermore that without a section on mental and behavioural disorders the list of occupational diseases would be incomplete. Worker experts were concerned to improve the reporting of mental and behavioural disorders, noting that present notification of even well-known diseases was often poor. Reporting would then hopefully improve prevention, which was most important.

80. Point 2.4.1 “Post-traumatic stress disorder due to a stressful event or situation” was considered specifically. Employer experts proposed the addition of the word “extremely”
before “stressful” to highlight that this disease occurred only on those occasions where very stressful and traumatic events occurred and not in normal stressful conditions. Worker experts then proposed deletion of all the words after “Post-traumatic stress disorder”, since this term was internationally recognized and had agreed clinical diagnostic criteria. This proposal was supported by several Government experts, and after further discussion was accepted by the Meeting. The term “Post-traumatic stress disorder” was therefore accepted for inclusion in the list.

81. Point 2.4.2. “Psychosomatic psychiatric syndromes caused by mobbing”. Employer experts were opposed to the inclusion of this point on the grounds that the subject was still ill-defined and that it would be very hard to distinguish between occupational, non-occupational and personal causes of the symptoms associated with mobbing. However, they recommended that knowledge about the subject should be developed so that it could be properly and fully discussed at a later date. Worker experts supported the Office text since this reflected recent changes in the world of work, where mental and behavioural disorders such as those caused by mobbing were becoming increasingly significant and well recognized. The Russian and Chilean Government experts supported inclusion of the point, as did the Canadian Government expert, based on the positive responses from most of its states.

82. The representative from the WHO said that mobbing affected not only mental health but also caused hypertension, coronary problems, dermatitis and muscle pain, and suggested adding a new point “diseases caused by psychological harassment” to the section on occupational diseases caused by agents. The Government expert from Italy suggested amending point 2.4.2 so that it read “Pathologies caused by stress due to work organization or psychological or psychosomatic disorders due to work organization.” This amendment was unacceptable to Employer experts, who repeated their concerns to have a clearer definition of the issues and asked the Office to prepare an evidence-based document on the subject as a matter of priority. The Office agreed to carry out further work and research on the subject.

83. After further debate, it was clear that it would be very difficult for the Meeting to reach a consensus and the Chairperson asked the Meeting to agree to the Employer experts’ recommendation that the proposed point 2.4.2 should not be considered for inclusion in the list, but that mobbing should be recognized as a key issue for a future discussion. Worker experts wanted to see the proposed point 2.4.2 included in the list, but reluctantly accepted the recommendation solely because the Meeting could not reach an agreement on the issue. The Government experts also accepted the recommendation. Therefore point 2.4.2 was not included in the list.

84. Point 2.4.3 “Any other mental or behavioural disorder not mentioned in the preceding items … where a link is established between exposure to risk factors arising from work activities and the mental disorder contracted by the worker”. Most Government and Worker experts were in favour of retaining this or a similarly worded general point in the list. Employer experts expressed their objections to the addition of this point to the list. After further discussion, the Meeting agreed that this and the other general points would be discussed together at a later stage in the proceedings.

3. Occupational cancer

3.1. Cancer caused by the following agents

85. An Employer expert gave an overview of the causes of cancer in general. Cancer could be caused by a mixture of occupational, environmental and personal factors and
distinguishing between such factors was almost impossible. However, some cancers were clearly occupational and victims should be compensated accordingly. The IARC had produced lists of known and suspected carcinogens, including group 1 proven carcinogens to humans. The IARC’s group 1 carcinogens were considered as a starting point for considering which carcinogens should be included in the ILO’s list of occupational diseases, but it was not possible simply to transfer them all. The representative of the IARC endorsed this, adding that where cancer involved workplace exposure to a carcinogen listed in the IARC’s group 1, it should always be regarded as occupational.

86. Points 3.1.1 to 3.1.18. These were all accepted for inclusion in the list of occupational diseases, except for point 3.1.8.

87. Point 3.1.8. “Benzene and its toxic homologues”. Employer experts proposed deleting the words “and its toxic homologues” since it remained uncertain whether the toxic homologues of benzene, such as toluene and xylene, were carcinogens. The whole phrase appeared in section 1.1.12, so the other toxic effects of these substances were already addressed by the list. Other experts agreed that there was still some uncertainty about the carcinogenicity of benzene’s homologues, so it was decided to remove the additional words and only benzene was accepted for inclusion in this section of the list.

88. Regarding points 3.1.16 “Beryllium and its compounds” and 3.1.17 “Cadmium and its compounds”, an Employer expert highlighted the need for discussion at a national level regarding risk levels in different countries.

89. Point 3.1.19 “Ethylene oxides”. An Employer expert queried the use of the plural “oxides”, since only one oxide was commonly known. The Chairperson informed the Meeting that this was a typographical error and that the final “s” would be removed. Otherwise, point 3.1.19 was accepted for inclusion in the list.

90. Point 3.1.20 “Formaldehyde”. An Employer expert claimed that there was insufficient evidence for the carcinogenicity of formaldehyde, and stressed the fact that the latest monograph from IARC on this subject had not yet been printed. He suggested that there needed to be a better technical understanding of the issues before considering them further. The representative from the IARC refuted the Employer expert’s claims, saying that there was clear consensus on evidence for the carcinogenicity of formaldehyde, and documents confirming this were available. A Worker expert confirmed that formaldehyde was regarded as a carcinogen in the United States. Another Worker expert called for formaldehyde to be included in the list because it was included in the IARC’s group 1. Employer experts thanked their colleagues for the clarification and agreed to the inclusion of formaldehyde in the list. Point 3.1.20 was therefore accepted for inclusion in the list.

91. Point 3.1.21 “Hepatitis B virus (HBV) and C virus (HCV)”. Worker experts asked why hepatitis A virus had been omitted. The representative of the IARC explained that there was no evidence of cancer being caused by hepatitis A. Worker experts accepted this and point 3.1.21 was accepted for inclusion in the list.

92. Point 3.1.22 “Silica”. Employer experts maintained that including silica in the list would be acceptable provided that it was linked to silicosis being present as well, since it was believed that silica was only carcinogenic if silicosis already existed. The representative from the IARC disagreed with this, stating that lung cancer was not limited to those workers already suffering from silicosis or silicotuberculosis but could occur as a result of any inhalation of crystalline silica. Several Government experts voiced their support for the Office text, as did Worker experts who reminded the Meeting that silica was listed as an the IARC’s group 1 carcinogen.
93. Employer experts queried whether there was sufficient evidence that silica was carcinogenic, and expressed their concern that if it was accepted as carcinogenic without a specific link to silicosis there could potentially be a large number of claims for compensation. Their argument was that everyone was exposed to silica in areas of daily life and, for it to have any effect, it would have to be inhaled in large quantities; such exposure would cause fibrosis or other tissue change and only then could cancer potentially occur. A Worker expert said that everyone was exposed to ionizing radiation every day, yet it was included in the list; it was the same case for silica.

94. Several compromise changes to the text were suggested, but after much debate it became clear that no consensus was going to be reached at this stage of the proceedings and the matter was adjourned.

4. Other diseases

95. An Employer expert queried why there was just one point in this new section and whether it would be better placed elsewhere in the list and for section 4 to be deleted. The Office explained that, in previous sections, it was agents that caused the diseases but this was not the case for miners’ nystagmus, which was linked to working conditions (e.g. lack of lighting). The Worker experts were content to accept the new section 4 and expected that other diseases would be added to it in due course.

96. Point 4.1 “Miners’ nystagmus”. After explanation of what this disease entailed, several experts wondered whether it still existed. However, although the disease had virtually been eradicated with the introduction of electric lighting in mines, cases were still being reported, especially from small mines in developing countries. The point was accepted for inclusion in the list.

97. Point 3.1.22 “Silica”. The subject had been adjourned from the previous day. Since then, the Employer experts and representatives from the WHO and IARC had met to discuss the criteria for silica to be included in the list of occupational diseases. Like malaria, silica was an example of where conditions of occupational exposure were needed. The Employer experts therefore wanted to propose some new wording for insertion at the beginning of the list, to help clarify such conditions. The Worker and the Government experts asked for the Meeting to finish the agenda items before discussing such proposed new wording. The Employer experts said that the new wording would help to deal with the final items of the agenda.

98. The Chairperson then opened discussion on Point 3.1.22. Employer experts said that they wanted the following statement at the beginning of the list of diseases:

“All diseases listed below and any other diseases suspected of being occupational in origin need to meet general criteria for identification as an occupational disease as follows:

– they are in a causal relationship with a specific exposure or agent;

– they occur in connection with a specific work environment and in specific occupations;

– they occur among the groups of persons concerned with a frequency which exceeds the average morbidity of the rest of the population; and
there is scientific evidence, including the strength of association with exposure to the risk, consistency in the laboratory and epidemiological data and the establishment of a clearly defined pattern of disease following exposure and plausibility of cause.”

99. The Employer experts explained that the above wording came from Report V(1) for the International Labour Conference, 2002, “Recording and notification of occupational accidents and diseases”. The Employer experts also made it clear that they would not be able to move forward with the discussion until this wording was accepted.

100. The Government expert from South Africa pointed out that whilst no expert would disagree with the wording, it could not be placed at the start of the list since it mentioned suspected occupational diseases, which were not included in the list. The Government and Worker experts all confirmed that they wished to follow the agenda as was agreed on the first day of the Meeting and leave discussion on the proposed new wording until after these agenda items had been concluded. The Employer experts insisted that their proposed new wording would help deal with the remaining agenda items, and that it would add a contextual framework for the list.

101. The Chairperson returned to point 3.1.22 “Silica”. The Government expert from Canada proposed replacing the proposed Office text with “Crystalline silica” and all the Government and Worker experts supported this. The Employer experts, however, were not prepared to make a decision on this item without first discussing their proposed opening wording. The experts of the three groups requested that their positions be formally recorded.

Other occupational diseases not specified in the list (the so-called “catch-all” points)

102. Discussion then turned to the so-called “catch-all” points, namely those that were included in the proposed list and reproduced in Annex 1 at the end of sections 1.1 chemical agents (point 1.1.41), 1.2 physical agents (point 1.2.8), 1.3 biological agents (1.3.10), 2.1 occupational respiratory diseases (2.1.12), 2.2 occupational skin diseases (2.2.4), 2.3 occupational musculoskeletal disorders (2.3.8), 2.4 mental and behavioural disorders (2.4.2) and 3.1 occupational cancer (3.1.22). The Employer experts re-introduced their proposed wording, explaining that it was intended to replace all of the “catch-all” points listed above and cover all occupational diseases. It was claimed that the wording was scientifically sound and would cover all occupational diseases.

103. Government experts generally favoured keeping the original Office text, stating that it was for individual member States, not the ILO, to adhere to the first three criteria of the wording proposed by the Employer experts, especially for the purposes of compensation. The Worker experts concurred, stating that the catch-all points had been agreed at the International Labour Conference in 2002, admittedly by compromise, but it was not now possible for this Meeting to overturn the decision reached at the International Labour Conference in 2002. The Employer experts explained that new points had been added to the proposed list, such as post-traumatic stress disorder and musculoskeletal disorders, so it was legitimate to discuss them.

104. Dr. Takala pointed out that catch-all points would remain in the list of occupational diseases, as they were already listed in the annex to Recommendation No. 194, unless there was consensus to change them.

105. Employer experts argued that the new updated list needed “instructions” about how to use it, that the proposed new wording would provide this and that it would be more useful for member States to have such a text included with the list. The wording could be placed at
the end of the list if preferred. They also wanted to see guidelines to accompany the list, which would include such points as degree and type of exposure and diagnostic criteria for occupational diseases, as the representative from the WHO had suggested. They also queried the mandate of this Meeting to update the list if such proposals could not be made.

106. There was general agreement that it would be useful to have further guidance accompanying the updated list, and both the WHO and ICOH reiterated their willingness to work with the ILO to prepare such a document.

107. The Employer experts stated that they could not endorse the amended list without the abovementioned new wording that they had proposed. They strongly believed that such criteria were needed in the list for it to be appropriately used around the world. They therefore proposed that the Office develop more guidance on occupational diseases, so that the next level of work could begin in the near future.

108. In an attempt to reach a compromise, the Government experts then proposed alternative wording to that proposed by the Employer experts. The wording would appear at the end of the whole list, and would replace all the catch-all phrases, as listed above. The proposed wording would read:

“Any other occupational diseases and/or disorders not mentioned in these categories where a link is established between exposure to the agent and/or risk factor arising from work activities and the diseases and/or disorders contracted by the workers.”

109. The Worker experts accepted the proposal, but the Employer experts could not do so.

110. The Chairperson then asked the experts to indicate their position on each of the catch-all points, as listed above. The Worker and the Government experts supported all of the points, but the Employer experts could not do so.

Proposals for further work by the ILO

111. The Chairperson summarized the requests proposed by the participants for future Office work in the following areas: SARS and avian flu, rhinitis, mobbing, styrene, caesium carbide processing, passive smoking, physical and mental illness caused by work organization, chronic low back diseases, chronic neck and shoulder diseases, reproductive hazards, shoulder tendonitis and pot room asthma.

112. Worker experts considered that there were two issues that needed to be addressed, namely to look at criteria that could be used when modifying the list and, secondly, the use to which the list was put. For the latter, the use of the list was clearly defined in Paragraph 2 of Recommendation No. 194. The Government expert from South Africa asked the Office to develop definitions of diseases in relation to occupations and diagnostic criteria where possible. The representative from ICOH voiced concern on developing criteria for individual diagnoses. He advised that the Office could develop general criteria, which would be more feasible.

113. Dr. Takala warned against having too high an expectation as to what the Office could deliver, as it would be extremely difficult to justify the organization of another Meeting of Experts if the current one could not reach a consensus.
Next steps

114. Dr. Takala requested guidance from the Meeting on what should be reported to the Governing Body. The Government expert from China drew attention to all the good work accomplished at the Meeting, explaining that the current list was already an improvement on the list from 2002, and that this should be reported even if there was no consensus. He also urged the Office to take into account the differences between developing and developed countries, and that capacity building for developing countries should be seriously considered.

115. Employer experts said that this Meeting should be scientific in its approach rather than political. They also said that the proposed new wording would help an individual person using the list who was not an occupational physician. Dr. Niu explained that, as indicated in Paragraph 2 of Recommendation No. 194, the list was intended to be used by national authorities when developing their own lists of occupational diseases for the purposes of prevention, etc. and not by individual clinicians.

116. Worker experts reiterated that the main aim of the list was primarily to aid prevention and reporting of occupational diseases, and that the list should serve as a guide to governments to prioritize their prevention activities. They agreed that when updating the list in the future, criteria along the lines proposed by the Employer experts would be useful, and other international lists, such as the IARC list, be taken into account.

117. The Employer experts stated that without endorsement of their proposed wording (see paragraph 98), they could not endorse the amendments to the list. During the course of subsequent discussion, Worker and Government experts restated their positions, adding that in their view, the Employer experts’ new wording went beyond the mandate determined by the Governing Body for this Meeting. The Deputy Legal Adviser from the ILO confirmed this, saying that the addition of the new wording would modify Recommendation No. 194, and that such a change was only possible at the International Labour Conference. He also explained that if no consensus could be reached, there would be no updated list of occupational diseases. Employer experts disagreed with the legal advice given, saying that the Meeting had been called to update and replace the list, so this should give the Meeting scope for modifying the list instead of just adding diseases to it.

118. Dr. Niu repeated the procedure taken by the Office in preparing the proposed list as mandated by the 2002 International Labour Conference Committee. He added that the replies to the Office questionnaires from member States and the ILO constituents had been positive in relation to the catch-all points at the end of each section.

119. Employer experts questioned the advice given by the Deputy Legal Adviser from the ILO, reiterating that they would not be able to endorse the work of the Meeting without the inclusion of their proposed text. They stated that the points in the amended list that they had accepted earlier in the proceedings were accepted on the expectation that their proposed new wording would be placed within the list. Worker experts could not agree with this approach and repeated that the Meeting did not have the mandate to do what the employers were asking, urging them to reconsider their view.

120. The Chairperson then conceded that no consensus would be reached, and that the reasons for this should be made clear to the Governing Body.

121. The Deputy Legal Adviser, answering a question put by the Chairperson, explained that usually the Governing Body simply approved publication by the Office of the output from meetings of experts, but it was different in this case. He said that the International Labour Conference had given the mandate for the List of Occupational Diseases to be regularly reviewed and updated by meetings of experts, and that the Governing Body would have to
approve the list. On its approval, the new list would replace the preceding one and that would be communicated to the Members of the International Labour Organization. If it were possible to reach consensus on an updated list, it would be hypothetically possible to amend the text at the level of the Governing Body.

122. Worker experts were very concerned that the Meeting’s unsuccessful attempt at updating the list would lead to it not being updated for a long time. Moreover, they also felt that the credibility of the ILO was at stake, and the lack of consensus here was a very serious matter. As a way forward, they proposed placing the Employer experts’ concerns in the report, but this too was unacceptable to the Employer experts.

123. Following the Deputy Legal Adviser’s advice, the Government expert from South Africa proposed referring those areas where consensus could not be reached, including the proposed new wording from the Employer experts, to the Governing Body for a decision. Several Government experts voiced support for this proposal, as it would mean that the points agreed for addition to the list would not be lost and thus hard work at the Meeting not wasted. The Employer experts agreed to the proposal, as did the Worker and Government experts. The Deputy Legal Adviser, however, clarified that without consensus within the Meeting on the updated list there was no list for the Governing Body to approve.

124. Experts requested that the report submitted to the Governing Body should reflect the positions of the Government and Worker experts on one hand, and the Employer experts on the other. There were different views about how to present these positions in the report. A proposal was put forward for there to be two separate lists, one reflecting the position of the Government and Worker experts and the second reflecting the position of the Employer experts. A second proposal was to have just one list that reflected the positions of all experts. After some debate, the Government and Employer experts accepted the first proposal, while the Worker experts indicated that they would neither support nor oppose the proposal. Annex 1 to this report reflected the position of the Government and Worker experts; Annex 2 reflected the position of the Employer experts.

125. Mr. Assane Diop, Executive Director of the Social Protection Sector, ILO, addressed the Meeting on its final day, saying that he regretted not being able to attend the Meeting earlier in its proceedings. He had heard of the Meeting’s progress so far and very much hoped that even at this late stage in the proceedings a consensus position would be reached, saying that this should be the aim of the Meeting.

126. On the request of the Government expert from Thailand, the Chairperson invited the Legal Adviser of the ILO to clarify the mandate of the Meeting. She recalled the independence of experts nominated to serve in meetings of experts based on their technical expertise, and the mandate given to the Meeting by the Governing Body, which was quite specific: the examination and adoption of an updated list of occupational diseases to replace the list included in the annex to the List of Occupational Diseases Recommendation, 2002 (No. 194), in line with the provision that the list should be regularly reviewed and updated. Addition of text that went beyond a list of diseases to extend to criteria for identifying them would be beyond the mandate given to the Meeting. Such a modification could be interpreted as amending a Recommendation or even a Convention, which could only be done by the International Labour Conference acting on an agenda item that had been decided upon by the ILO Governing Body. If the experts so agreed, they could in their report draw the attention of the Governing Body to the possible need to place such an item on the agenda of a future Conference. She also explained that if no consensus could be reached, there would be no updated list of occupational diseases, and that the Governing Body would only note the report of the Meeting; it would not enter into a substantive discussion of issues that had been referred to experts. The existing list of occupational diseases would be maintained if no consensus on an updated list were reached by the Meeting.
127. The Employer experts restated their disagreement with the legal advice given, and thanked the Government experts for their efforts in trying to resolve the stalemate. They still believed that the mandate of the Meeting, which was to update and replace the current list, should be understood as broad enough to allow for adding their proposed wording.

128. On a query made by the Worker experts asking whether or not a decision could be made by majority, the Legal Adviser explained that there were no formal rules for meetings of experts, and thus no formal definition of a majority or voting procedures. She also stated that even if this were possible, it would be difficult to make rules at the end of the Meeting as these would need to have been defined right at the beginning. She stressed the importance of the tradition of reaching decision by consensus in the ILO. The Government expert from South Africa concurred with the Legal Adviser, and proposed to proceed with the reading of the report as it was evident that no consensus could be reached in relation to the list.

Discussion and adoption of the report

129. The Reporter introduced the draft report of the Meeting. After examining the draft report paragraph by paragraph and its annexes, the experts adopted them as amended. Thereafter, the experts adopted the report as a whole.

20 December 2005. (Signed) Mr. Wayne Creaser, Chairperson.

Dr. Chaiyuth Chavilnitikut, Reporter.
Annex 1

List of occupational diseases proposed by the Government and Worker experts

1. Diseases caused by agents
   1.1. Diseases caused by chemical agents
      1.1.1. Diseases caused by beryllium or its toxic compounds
      1.1.2. Diseases caused by cadmium or its toxic compounds
      1.1.3. Diseases caused by phosphorus or its toxic compounds
      1.1.4. Diseases caused by chromium or its toxic compounds
      1.1.5. Diseases caused by manganese or its toxic compounds
      1.1.6. Diseases caused by arsenic or its toxic compounds
      1.1.7. Diseases caused by mercury or its toxic compounds
      1.1.8. Diseases caused by lead or its toxic compounds
      1.1.9. Diseases caused by fluorine or its toxic compounds
      1.1.10. Diseases caused by carbon disulphide
      1.1.11. Diseases caused by the toxic halogen derivatives of aliphatic or aromatic hydrocarbons
      1.1.12. Diseases caused by benzene or its toxic homologues
      1.1.13. Diseases caused by toxic nitro- and amino-derivatives of benzene or its homologues
      1.1.14. Diseases caused by nitroglycerine or other nitric acid esters
      1.1.15. Diseases caused by alcohols, glycols or ketones
      1.1.16. Diseases caused by asphyxiants: carbon monoxide, hydrogen cyanide or its toxic derivatives, hydrogen sulphide
      1.1.17. Diseases caused by acrylonitrile
      1.1.18. Diseases caused by oxides of nitrogen
      1.1.19. Diseases caused by vanadium or its toxic compounds
      1.1.20. Diseases caused by antimony or its toxic compounds
      1.1.21. Diseases caused by hexane
      1.1.22. Diseases caused by mineral acids
      1.1.23. Diseases caused by pharmaceutical agents
      1.1.24. Diseases caused by nickel or its compounds
1.1.25. Diseases caused by thallium or its compounds
1.1.26. Diseases caused by osmium or its compounds
1.1.27. Diseases caused by selenium or its compounds
1.1.28. Diseases caused by copper or its compounds
1.1.29. Diseases caused by platinum or its compounds
1.1.30. Diseases caused by tin or its compounds
1.1.31. Diseases caused by zinc or its compounds
1.1.32. Diseases caused by ozone, phosgene
1.1.33. Diseases caused by irritants: benzoquinone and other corneal irritants
1.1.34. Diseases caused by ammonia
1.1.35. Diseases caused by isocyanates
1.1.36. Diseases caused by pesticides
1.1.37. Diseases caused by sulphur oxides
1.1.38. Diseases caused by organic solvents
1.1.39. Diseases caused by latex or latex containing products
1.1.40. Diseases caused by chlorine
1.1.41. Diseases caused by any other chemical agents not mentioned in the preceding items
1.1.1 to 1.1.40, where a link is established between the exposure to these chemical agents arising from work activity and the disease contracted by the worker

1.2. Diseases caused by physical agents
1.2.1. Hearing impairment caused by noise
1.2.2. Diseases caused by vibration (disorders of muscles, tendons, bones, joints, peripheral blood vessels or peripheral nerves)
1.2.3. Diseases caused by work in compressed and decompressed air
1.2.4. Diseases caused by ionizing radiations
1.2.5. Diseases caused by radiofrequency radiations
1.2.6. Diseases caused by optical (ultraviolet, visible light, infrared) radiations
1.2.7. Diseases caused by extreme temperature
1.2.8. Diseases caused by any other physical agents not mentioned in the preceding items 1.2.1 to 1.2.7, where a link is established between the exposure to these physical agents arising from work activity and the disease contracted by the worker

1.3. Diseases caused by biological agents
1.3.1. Brucellosis
1.3.2. Diseases caused by hepatitis viruses
1.3.3. Diseases caused by human immunodeficiency virus (HIV)
1.3.4. Tetanus
1.3.5. Tuberculosis
1.3.6. Toxic or inflammatory syndromes associated with bacterial or fungal contaminants
1.3.7. Malaria
1.3.8. Anthrax
1.3.9. Leptospirosis
1.3.10. Diseases caused by any other biological agents not mentioned in the preceding paragraphs 1.3.1. to 1.3.9. where a link is established between the exposure to these biological agents arising from work activity and the disease contracted by the worker

2. Diseases by target organ systems
2.1. Occupational respiratory diseases
2.1.1. Pneumoconiosis caused by fibrogenic mineral dust (silicosis, anthraco-silicosis, asbestosis)
2.1.2. Silicotuberculosis
2.1.3. Pneumoconioses caused by non-fibrogenic mineral dust
2.1.4. Siderosis
2.1.5. Bronchopulmonary diseases caused by hard-metal dust
2.1.6. Bronchopulmonary diseases caused by cotton dust (byssinosis), or flax, hemp or sisal dust
2.1.7. Occupational asthma caused by recognized sensitizing agents or irritants inherent to the work process
2.1.8. Extrinsic allergic alveolitis caused by the inhalation of organic dusts, as prescribed by national legislation
2.1.9. Chronic obstructive pulmonary diseases
2.1.10. Diseases of the lung caused by aluminium
2.1.11. Upper airways disorders caused by recognized sensitizing agents or irritants inherent to the work process
2.1.12. Any other respiratory diseases not mentioned in the preceding items 2.1.1. to 2.1.11. where a link is established between the exposure to risk factors from work activity and the disease contracted by the worker
2.2. Occupational skin diseases
2.2.1. Allergic contact dermatoses and contact urticaria caused by recognized allergy provoking agents not included in other items
2.2.2. Irritant contact dermatoses caused by other recognized irritant agents not included in other items

2.2.3. Occupational vitiligo

2.2.4. Skin diseases caused by physical, chemical or biological agents not included under other items

2.3. Occupational musculoskeletal disorders

2.3.1. Radial styloid tenosynovitis due to repetitive movements, forceful exertions and extreme postures of the wrist

2.3.2. Chronic tenosynovitis of hand and wrist due to repetitive movements, forceful exertions and extreme postures of the wrist

2.3.3. Olecranon bursitis due to prolonged pressure of the elbow region

2.3.4. Prepatellar bursitis due to prolonged stay in kneeling position

2.3.5. Epicondylitis due to repetitive forceful work

2.3.6. Meniscus lesions following extended periods of work in a kneeling or squatting position

2.3.7. Carpal tunnel syndrome

2.3.8. Any other musculoskeletal disorders not mentioned in the preceding items 2.3.1. to 2.3.7. where a link is established between exposure to risk factors arising from work activity and the disorders contracted by the worker

2.4. Mental and behavioural disorders

2.4.1. Post-traumatic stress disorder

2.4.2. Any other mental or behavioural disorder not mentioned in preceding item 2.4.1. where a link is established between exposure to risk factors arising from work activities and the mental disorder contracted by the worker

3. Occupational cancer

3.1. Cancer caused by the following agents

3.1.1. Asbestos

3.1.2. Benzidine and its salts

3.1.3. Bis chloromethyl ether (BCME)

3.1.4. Chromium VI and chromium VI compounds

3.1.5. Coal tars, coal tar pitches or soots

3.1.6. Beta-naphthylamine

3.1.7. Vinyl chloride

3.1.8. Benzene

3.1.9. Toxic nitro- and amino-derivatives of benzene or its homologues
3.1.10. Ionizing radiations

3.1.11. Tar, pitch, bitumen, mineral oil, anthracene, or the compounds, products or residues of these substances

3.1.12. Coke oven emissions

3.1.13. Compounds of nickel

3.1.14. Wood dust

3.1.15. Arsenic and its compounds

3.1.16. Beryllium and its compounds

3.1.17. Cadmium and its compounds

3.1.18. Erionite

3.1.19. Ethylene oxide

3.1.20. Formaldehyde

3.1.21. Hepatitis B Virus (HBV) and C Virus (HCV)

3.1.22. Cancer caused by any other agents not mentioned in the preceding items 3.1.1. to 3.1.21. where a link is established between exposure to these agents arising from work activity and the disease contracted by the worker

4. Other diseases

4.1. Miners’ nystagmus
Annex 2

List of occupational diseases proposed by the Employer experts

All the diseases listed below and any other diseases suspected of being occupational in origin need to meet general criteria for identification as an occupational disease as follows:

• they are in a causal relationship with a specific exposure or agent;
• they occur in connection with a specific work environment and in specific occupations;
• they occur among the groups of persons concerned with a frequency which exceeds the average morbidity of the rest of the population; and
• there is scientific evidence, including the strength of association with exposure to the risk, consistency in laboratory and epidemiological data and the establishment of a clearly defined pattern of disease following exposure and plausibility of cause.

(Paragraph proposed by the Employer experts to apply to the list and replace points: 1.1.41., 1.2.8., 1.3.10., 2.1.12., 2.2.4., 2.3.8., 2.4.2. and 3.1.22. in Annex 1: List of occupational diseases proposed by the Government and Worker experts.)

1. Diseases caused by agents

1.1. Diseases caused by chemical agents

1.1.1. Diseases caused by beryllium or its toxic compounds

1.1.2. Diseases caused by cadmium or its toxic compounds

1.1.3. Diseases caused by phosphorus or its toxic compounds

1.1.4. Diseases caused by chromium or its toxic compounds

1.1.5. Diseases caused by manganese or its toxic compounds

1.1.6. Diseases caused by arsenic or its toxic compounds

1.1.7. Diseases caused by mercury or its toxic compounds

1.1.8. Diseases caused by lead or its toxic compounds

1.1.9. Diseases caused by fluorine or its toxic compounds

1.1.10 Diseases caused by carbon disulphide

1.1.11 Diseases caused by the toxic halogen derivatives of aliphatic or aromatic hydrocarbons

1.1.12. Diseases caused by benzene or its toxic homologues

1.1.13. Diseases caused by toxic nitro- and amino-derivatives of benzene or its homologues

1.1.14. Diseases caused by nitroglycerine or other nitric acid esters

1.1.15. Diseases caused by alcohols, glycols or ketones

1.1.16. Diseases caused by asphyxiants: carbon monoxide, hydrogen cyanide or its toxic derivatives, hydrogen sulphide
1.1.17. Diseases caused by acrylonitrile
1.1.18. Diseases caused by oxides of nitrogen
1.1.19. Diseases caused by vanadium or its toxic compounds
1.1.20. Diseases caused by antimony or its toxic compounds
1.1.21. Diseases caused by hexane
1.1.22. Diseases caused by mineral acids
1.1.23. Diseases caused by pharmaceutical agents
1.1.24. Diseases caused by nickel or its compounds
1.1.25. Diseases caused by thallium or its compounds
1.1.26. Diseases caused by osmium or its compounds
1.1.27. Diseases caused by selenium or its compounds
1.1.28. Diseases caused by copper or its compounds
1.1.29. Diseases caused by platinum or its compounds
1.1.30. Diseases caused by tin or its compounds
1.1.31. Diseases caused by zinc or its compounds
1.1.32. Diseases caused by ozone, phosgene
1.1.33. Diseases caused by irritants: benzoquinone and other corneal irritants
1.1.34. Diseases caused by ammonia
1.1.35. Diseases caused by isocyanates
1.1.36. Diseases caused by pesticides
1.1.37. Diseases caused by sulphur oxides
1.1.38. Diseases caused by organic solvents
1.1.39. Diseases caused by latex or latex-containing products
1.1.40. Diseases caused by chlorine
1.2. Diseases caused by physical agents
1.2.1. Hearing impairment caused by noise
1.2.2. Diseases caused by vibration (disorders of muscles, tendons, bones, joints, peripheral blood vessels or peripheral nerves)
1.2.3. Diseases caused by work in compressed and decompressed air
1.2.4. Diseases caused by ionizing radiations
1.2.5. Diseases caused by radiofrequency radiations
1.2.6. Diseases caused by optical (ultraviolet, visible light, infrared) radiations
1.2.7. Diseases caused by extreme temperature
1.3. Diseases caused by biological agents
1.3.1. Brucellosis
1.3.2. Diseases caused by hepatitis viruses
1.3.3. Diseases caused by human immunodeficiency virus (HIV)
1.3.4. Tetanus
1.3.5. Tuberculosis
1.3.6. Toxic or inflammatory syndromes associated with bacterial or fungal contaminants
1.3.7. Malaria
1.3.8. Anthrax
1.3.9. Leptospirosis
2. Diseases by target organ systems
2.1. Occupational respiratory diseases
2.1.1. Pneumoconioses caused by fibrogenic mineral dust (silicosis, anthraco-silicosis, asbestosis)
2.1.2. Silicotuberculosis
2.1.3. Pneumoconioses caused by non-fibrogenic mineral dust
2.1.4. Siderosis
2.1.5. Bronchopulmonary diseases caused by hard-metal dust
2.1.6. Bronchopulmonary diseases caused by cotton dust (byssinosis), or flax, hemp or sisal dust
2.1.7. Occupational asthma caused by recognized sensitizing agents or irritants inherent to the work process
2.1.8. Extrinsic allergic alveolitis caused by the inhalation of organic dusts, as prescribed by national legislation
2.1.9. Chronic obstructive pulmonary diseases
2.1.10. Diseases of the lung caused by aluminum
2.1.11. Upper airways disorders caused by recognized sensitizing agents or irritants inherent to the work process
2.2. Occupational skin diseases
2.2.1. Allergic contact dermatoses and contact urticaria caused by recognized allergy-provoking agents not included in other items
2.2.2. Irritant contact dermatoses caused by other recognized irritant agents not included in other items

2.2.3. Occupational vitiligo

2.3. Occupational musculoskeletal disorders

2.3.1. Radial styloid tenosynovitis due to repetitive movements, forceful exertions and extreme postures of the wrist

2.3.2. Chronic tenosynovitis of hand and wrist due to repetitive movements, forceful exertions and extreme postures of the wrist

2.3.3. Olecranon bursitis due to prolonged pressure of the elbow region

2.3.4. Prepatellar bursitis due to prolonged stay in kneeling position

2.3.5. Epicondylitis due to repetitive forceful work

2.3.6. Meniscus lesions following extended periods of work in a kneeling or squatting position

2.3.7. Carpal tunnel syndrome

2.4. Mental and behavioural disorders

2.4.1. Post-traumatic stress disorder

3. Occupational cancer

3.1. Cancer caused by the following agents

3.1.1. Asbestos

3.1.2. Benzidine and its salts

3.1.3. Bis chloromethyl ether (BCME)

3.1.4. Chromium VI and chromium VI compounds

3.1.5. Coal tars, coal tar pitches or soots

3.1.6. Beta-naphthylamine

3.1.7. Vinyl chloride

3.1.8. Benzene

3.1.9. Toxic nitro- and amino-derivatives of benzene or its homologues

3.1.10. Ionizing radiations

3.1.11. Tar, pitch, bitumen, mineral oil, anthracene, or the compounds, products or residues of these substances

3.1.12. Coke oven emissions

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3.1.15. Arsenic and its compounds
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3.1.17. Cadmium and its compounds
3.1.18. Erionite
3.1.19. Ethylene oxide
3.1.20. Formaldehyde
3.1.21. Hepatitis B Virus (HBV) and C Virus (HCV)

4. Other diseases
4.1. Miners’ nystagmus
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