ence antisera recorded in "International Biological and Standards Reference Preparation" be deleted and that the Subcommittee would advise on which group-reactive antisera should be recorded in this publication. This matter would be further discussed by the Chairman at a meeting with the World Health Organization in November 1978.

Minute 14. Preservation of reference cultures. Cultures previously cloned should be preserved in the vapor phase of liquid nitrogen. A working collection could also be stored at -70°C . It is not necessary to add glycerol to the medium before preservation.

Minute 15. Proposal to introduce a new genus *Leptonema*. After discussion on the proposal by Kari Hovind-Hougen for the introduction of a new genus for *illini* to be called *Leptonema* it was agreed that this was premature and that further investigation was required.

Minute 16. Objection to nomenclature. A document ("Nomenclature of the species—revision") prepared by E. Kmety had been circulated before the meeting. He contended that the use of "interrogans" as a

species name was illegitimate and he suggested that "*icterohaemorrhagiae*" should be used as the nomenclatural type. The Subcommittee was unable to agree with his proposal.

Minute 17. Current membership. The current membership of the Subcommittee is as follows: S. Faine (Chairman), Melbourne, Victoria, Australia; N. D. Stallman (Secretary), Brisbane, Queensland, Australia; A. D. Alexander, Chicago, Ill., U.S.A.; Y. G. Chernukha, Moscow, U.S.S.R.; M. Cinco, Trieste, Italy; C. D. Cox, Amherst, Mass., U.S.A.; H. Dikken, Amsterdam, The Netherlands; R. C. Johnson, Minneapolis, Minn., U.S.A.; E. Kmety, Bratislava, Czechoslovakia; M. Torten, Ness-Ziona, Israel; R. Yanagawa, Sapporo, Japan.

Minute 18. Adjournment. The final session was closed by the Chairman at 11 a.m. on 6 September 1978. The date and place for the next meeting were not decided.

N. D. STALLMAN, *Secretary*

International Committee on Systematic Bacteriology Subcommittee on *Moraxella* and Allied Bacteria

Minutes of the Meeting, 2 to 4 September 1978

Munich, F.R.G.

Session 1. Closed meeting.

Minute 1. Call to order. The meeting was called to order at 1500 on 2 September by the acting Chairman.

Minute 2. Record of attendance. The members present were K. Bøvre (Secretary, Acting Chairman) and J. M. Shewan.

Minute 3. Agenda. The agenda was approved.

Minute 4. Report on the activities of the Subcommittee. The report to the Chairman of ICSB of July 1978 was approved.

Minute 5. Minimal standards for description of new taxa within the genera *Moraxella* and *Acinetobacter*. The evaluation of the published proposal (Int. J. Syst. Bacteriol. 26:92–96, 1976) by the Judicial Commission and the first application of the minimal standards in actual description of a new species (Int. J. Syst. Bacteriol. 26:511–521, 1976) were noted. Current experience by application of the standards has resulted in technical modifications which will be discussed within the Subcommittee in future correspondence. Also, the consequences of including *Branhamella* in genus *Moraxella* by some taxonomists should be discussed in consultation with the Subcommittee on the Taxonomy of *Neisseriaceae*, as well as the importance

of having standards covering the differential-diagnostic demands of *Neisseria elongata* and the genus *Kingella*.

Minute 6. Approved Lists of Bacterial Names. In response to a letter from the Chairman of ICSB on designations of type or neotype strains in the Subcommittee's sections of the Lists (*Moraxella*, *Acinetobacter*, and *Kingella*), it was decided that K. Bøvre should take the necessary action. A valid description of the organism tentatively named *Moraxella urethralis* was mentioned as a particularly urgent task.

Minute 7. Future of the Subcommittee. Recent investigations have shown clearly that the taxonomic problems of oxidase-positive and -negative organisms to be covered by the Subcommittee are far from completely solved. It was agreed that the maintenance of the Subcommittee is justified.

Minute 8. Changes in membership and officers. The death of M. Piéchaud was noted with regret. S. D. Henriksen had resigned as Chairman and member of the Subcommittee in 1976, and since then the Secretary, K. Bøvre, had been acting Chairman after agreement among the members. In 1978, the members Sylvia G. Cary, A.-L. Courtieu, S. P. Lapage, H.

Lautrop, E. J. Ordal, and Alice Reyn also resigned. The wholehearted service to the Subcommittee of these distinguished specialists in the field was gratefully acknowledged. Since only two members were present, it was decided not to perform elections at the meeting. By mail inquiries and election after the Congress, three members expressed willingness to continue (K. Bøvre, E. Juni, and J. M. Shewan), and the membership was extended also to include E. Holten, G. Shaw, J. J. S. Snell, M. Véron, and R. E. Weaver. Election of officers among the full membership was subsequently arranged by J. M. Shewan. K. Bøvre was elected Chairman and J. J. S. Snell was elected Secretary.

Minute 9. Current membership. The current membership of the Subcommittee is as follows: K. Bøvre (Chairman), Oslo, Norway; J. J. S. Snell (Secretary), London, U.K.; E. Holten, Oslo, Norway; E. Juni, Ann Arbor, Mich., U.S.A.; G. Shaw, Bristol, U.K.; J. M. Shewan, Aberdeen, U.K.; M. Véron, Paris, France; R. E. Weaver, Atlanta, Ga., U.S.A.

Minute 10. Adjournment. The meeting was adjourned at 1600.

Session 2. Open meeting.

Minute 11. Call to order. An open meeting was

called to order at 1500 on 4 September.

Minute 12. Record of attendance. The members present were K. Bøvre (Secretary, acting Chairman) and J. M. Shewan (present only part of the time as a result of other commitments). Also present was J. J. S. Snell.

Minute 13. Progress and problems in the taxonomy of *Neisseriaceae*. The Secretary reviewed the achievements made and present research as outlined in the report of the Subcommittee of July 1978. Particularly mentioned were several undescribed species of oxidase-positive rods and cocci related to *Moraxella*, isolated from animals.

Minute 14. Future research. The need for further studies of psychrophilic oxidase-positive and oxidase-negative rods related to *Moraxella* and *Acinetobacter*, as well as *Acinetobacter* isolated from humans and animals, was discussed. It was planned to perform such studies by cooperation of Subcommittee members and other specialists. Details were to be discussed by correspondence after the Congress.

Minute 15. Adjournment. The meeting was adjourned at 1630.

K. Bøvre, Chairman

International Committee on Systematic Bacteriology Subcommittee on Mycobacteria

Minutes of the Meeting, 7 September 1978

Munich, F.R.G.

Session 1. Closed meeting

Minute 1. Call to order. The meeting was called to order at 1410 by the Chairman, Lawrence G. Wayne.

Minute 2. Record of attendance. Members present were M. Magnusson, G. Meissner, M. Ridell (designated substitute for A. Lind), K. Takeya, L. Wayne, and G. P. Kubica. A quorum was present.

Minute 3. Visitors. Chairman Wayne introduced Micah Krichevsky, National Institute of Health, Bethesda, Md., U.S.A., who has accessioned, in his computers, all the data from prior studies conducted by members of this Subcommittee and the International Working Group on Mycobacterial Taxonomy.

Minute 4. Election of Secretary. The term of G. P. Kubica expired at the end of the Munich meeting. Proposed for secretary were G. P. Kubica, A. Lind, and S. R. Pattyn. G. P. Kubica was re-elected.

Minute 5. New members. Chairman Wayne called attention to the need for a list of Recommended Procedures for the Differential Identification of Myco-

bacteria, which must be presented to Judicial Commission and ICSB; he then questioned the depth of Subcommittee expertise to resolve all questions or problems of mycobacterial taxonomy. After some discussion, the membership moved that the Subcommittee be increased by not more than two members. Several candidates were put forth, and committee members were instructed to consider these before the next closed meeting (later this same day).

Minute 6. Adjournment. The meeting was adjourned at 1455 to enable attendance at the open meeting.

Session 2. Open meeting

Minute 7. Summary of the open meeting. I. Tarnok presented some observations on biochemical behavior of *Mycobacterium gastri*, *M. kansasii*, *M. diernhoferi*, and *M. parafortuitum*. He felt that his evidence favored inclusion of *M. gastri* in the species *M. kansasii*. E. Mankiewicz reviewed the status of phage typing of mycobacteria. This technique appears useful at the