bly containing clusters of organisms differentiable at the genus level, e.g., the *P. acidovorans* group and the *P. solanacearum* group, but that relevant research work was still in progress so that further consideration of such taxonomic problems would be premature.

Minute 9. Open Meeting. During the open meeting of the Subcommittee on 5 September, about 7 additional people were present, and in addition to two reports from members concerning the serotyping of *P. aeruginosa*, N. J. Palleroni read a paper entitled, "New developments in the taxonomy of the hydrogen pseudomonads."

Minute 10. Current membership. The current mem-

bership of the Subcommittee is as follows: D. W. Dye (Chairman), Auckland, New Zealand; M. E. Rhodes-Roberts (Secretary), Aberystwyth, U.K.; J. De Ley, Ghent, Belgium; P. V. Liu, Louisville, Ky., U.S.A.; O. Lysenko, Prague, Czechoslovakia; N. J. Palleroni, North Caldwell, N.J., U.S.A.; M. N. Schroth, Berkeley, Calif., U.S.A.; R. H. W. Schubert, Frankfurt, F.R.G.; M. Véron, Paris, France; E. Yabuuchi, Moriguchi-Shi, Japan.

Minute 11. Adjournment. The final meeting adjourned at 1730.

MURIEL E. RHODES-ROBERTS, *Secretary*

International Committee on Systematic Bacteriology Subcommittee on Taxonomy of the *Rickettsiales*

Minutes of the Meeting, 7 September 1978

Munich, F.R.G.

Minute 1. Call to order. The meeting was called to order at 1400 on 7 September 1978 by Chairman R. A. Ormsbee.

Minute 2. Record of attendance. Members present were: I. Tarasevich, E. Edlinger, J. Orfila, Y. Becker, A. Tamura, and R. Ormsbee. L. Page, co-opted as a special expert, was also present.

Minute 3. Minutes of the previous meeting. After appointment of the Subcommittee late in 1973, one meeting had been held in Smolenice, Czechoslovakia, on 23 June 1976. The minutes of that meeting, previously sent to the Chairman of ICSB, were reviewed.

Minute 4. Previous review by mail of specific names of organisms included under the order *Rickettsiales* and listed in the first draft of the Approved Lists of Bacterial Names was briefly discussed, and the additional following actions were recommended to the ad hoc Committee of the Judicial Commission: delete *Haemobartonella muris-musculi*, *Rickettsia burneti*, (species incertae sedis [sis]), *Wolbachia ctenocephali* (sis), *Wolbachia culicis* (sis), *Wolbachia dermocerophilus* (sis), *Wolbachia linognathi* (sis), *Wolbachia pulex* (sis), *Wolbachia sericea* (sis), and *Wolbachia trichodectae* (sis); retain *Rickettsia sennetsu* (sis), *Rickettsiella stethorae* (sis), and *Haemobartonella tyzzeri* (sis).

Minute 5. L. Page presented "Proposed minimal criteria for establishing a new species in the genus *Chlamydia*," which had been worked out by members of the Subcommittee on the Rickettsias, Taxonomy Committee, American Society for Microbiology. He suggested that similar minimal criteria for *Rickett-*

siales would be helpful. Page's proposal concerning *Chlamydia* follows:

"The basic publication must document:

a. that the typical chlamydial developmental cycle is demonstrable in electron micrographs of microcolonies of the new strain;

b. that the new strain has one or more of the chlamydial group antigens demonstrable by cross-reaction of homologous and heterologous chlamydial antigens and antisera;

c. whether glycogen is produced in microcolonies of the new strain and whether multiplication in chicken embryos is inhibited by sodium sulfadiazine;

d. the morphological and/or biochemical features that distinguish the new strain from recognized species; in particular, the determination that the new strain differs from recognized species in terms of DNA homology by a factor of 50 percent;

e. that the candidate strain has been deposited in a recognized culture collection;

f. that any proposed new species epithet for the candidate strain be checked for prior usage in *Index Bergeyana* and for the appropriate latinized ending in the *Bacteriological Code*."

The Subcommittee decided to defer any decision on Page's proposal to recommend adoption of a corresponding set of criteria for *Rickettsiales* at this time, or to recommend adoption of his proposed criteria for the chlamydiae. Becker, Orfila, and Page will work together further on minimal criteria for new species for *Chlamydia*, which can be presented for consideration at the next meeting of the Subcommittee.

Minute 6. It was suggested that the spotted fever group within the genus *Rickettsia* might be reduced to just two species, *R. rickettsii* and *R. akari*, and that other existing species within the spotted fever group (*R. conorii*, *R. sibirica*, *R. australis*, *R. parkeri*) be reduced to serotype status under *R. rickettsii*. No recommendation to the ad hoc Committee was made, but the proposal will remain under study by Edlinger and Tarasevich. It is expected that they will present a report on the proposal at the next meeting of the Subcommittee.

Minute 7. The subcommittee unanimously and strongly recommended to the Judicial Commission that they drop the penultimate "i" in specific names of members of the *Rickettsiales* which now end in "ii" and retain only the ultimate (genitive) "i". The reasons for this strong recommendation are as follows. (i) Stem augmentation of latinized personal names employed in forming modern specific names is both archaic and superfluous. (ii) Stem augmentation of rickettsial specific names is not consistent with established usage in naming either arthropod vectors or mammalian hosts of rickettsial diseases. (iii) The specific epithets *proWazeki*, *conori*, *rickettsi*, and *burneti* are deeply embedded in scientific literature. (iv) No useful purpose in changing to the "ii" form can be

perceived by this Subcommittee. This recommendation will be forwarded to the Judicial Commission.

Minute 8. A suggestion was received from C. Vago that the Subcommittee consider a transfer of genus *Rickettsiella* from tribe *Wolbachieae* to a position much closer to order *Chlamydiales*. A recommendation on this matter was postponed until additional data become generally available.

Minute 9. Current membership. Current membership of the Subcommittee is as follows: R. Ormsbee (Chairman), Hamilton, Mont., U.S.A.; E. Weiss (Secretary), Bethesda, Md., U.S.A.; Y. Becker, Jerusalem, Israel; R. Brezina, Bratislava, Czechoslovakia; E. Edlinger, Paris, France; J. A. Gaon, Sarajevo, Yugoslavia; E. Mikołajczyk, Warsaw, Poland; J. Orfila, Amiens, France; V. Popovici, Bucharest, Romania; P. Reeve, Vienna, Austria; A. Tamura, Niigata, Japan; I. V. Tarasevich, Moscow, U.S.S.R.

Minute 10. Next Meeting. Time and place of the next Subcommittee meeting were not set. However, it was agreed to meet again at or before the next Plenary Meeting of the ICSB.

Minute 11. Adjournment. The meeting was adjourned at 1630.

RICHARD A. ORMSBEE, *Chairman*

International Committee on Systematic Bacteriology Subcommittee on the Taxonomy of Staphylococci and Micrococci

Minutes of the Meeting, 2 and 5 September 1978

Munich, F.R.G.

Minute 1. Call to order. The meeting of the Subcommittee was held on 2 (closed meeting) and 5 (open meeting) September 1978. The closed meeting was called to order at 0930, 2 September. Members present were L. R. Hill (Chairman), W. E. Kloos, A. Torres Pereira, and K. H. Schleifer.

Minute 2. Minutes of the previous meeting. The minutes of the last meeting (Int. J. Syst. Bacteriol. 26:332-333, 1976) were approved, as was the accompanying note: Identification of staphylococci (Int. J. Syst. Bacteriol. 26:333-334, and Zentralbl. Bakteriologie, Parasitenkd. Infektionskr. Hyg. 1 Abt. Suppl. 5, p. 129, 1976).

Minute 3. Matters arising, except separate agenda items. *Micrococcus luteus* strain ATCC 4698 now appears in the latest computer printout of the Approved List from V. B. D. Skerman as the neotype, instead of ATCC 398.

Minute 4. Informal Meeting, Lyon 1977. The Chairman reported that an informal meeting had taken place

in Lyon, 17 September 1977, on occasion of the annual meeting of the French Society for Microbiology (symposium subject, "Staphylococci"). Subcommittee members present were L. R. Hill, M. Kocur, P. Oeding, and K. H. Schleifer. We record our gratitude to J. Fleurette for the facilities made available to us.

Minute 5. Approved Lists of Bacterial Names. In July 1978 V. B. D. Skerman had circulated to the Chairman and Secretary that section of the List relating to our interests. M. Kocur had also revised the Subcommittee's list of the sixth meeting. The three lists (Subcommittee 1975 version, Kocur 1978 revision, Skerman 1978 version) were compared, and most names, and type or neotype strains, presented no problems. Notes were taken of amendments, additions, or deletions we recommend should be made to Skerman's list, to be given to the Secretary (M. Kocur) later in the week: *M. agilis* (addition), *M. halobius* (amendment), *M. varians* (amendment), *M. varians* subsp. *halophilus* (deletion), *M. caseolyticus*