International Committee on Nomenclature of Bacteria¹

Xth International Congress for Microbiology

Minutes of the Meetings, 8 and 13 August 1970

Hotel Maria Isabel, Mexico City, Mexico

Minute 1. Call to order. The Chairman, V. B. D. Skerman, called the meeting to order at 9:30 AM 8 August.

Minute 2. Roll call. Those present were: S. Soriano (Argentina), S. Faine (Australia), V. B. D. Skerman (Australia), J. M. Vincent (Australia), Christian Kunz (Austria), R. G. E. Murray (Canada), Ivan Malek (Czechoslovakia), Wilhelm Frederiksen (Denmark), H. Chr. Engbaek (Denmark), Hans Lautrop (Denmark), Eero Mustakallio (Finland), N. Oker-Blom (Finland), L. LeMinor (France), F. Gasser (France), M. Piéchaud (France), Michel Véron (France), H. Habs (Germany), O. Kandler (Germany), E. Küster (Germany), Ralph H. W. Schubert (Germany), Wilhelm Wundt (Germany), W. Köhler (German Democratic Republic, East Germany), T. Gibson (Great Britain), S. P. Lapage (Great Britain), M. E. Sharpe (Great Britain), P. H. A. Sneath (Great Britain), John Papavassilou (Greece), Hiroshi Iizuka (Japan), Seung Hahm Park (Korea), J. A. R. Miles (New Zealand), Kjell Eimhjellen (Norway), S. D. Henriksen (Norway), Olav Sandvik (Norway), Stefan Slopek (Poland), M. Moreira-Jacob (Portugal), Roman de Vincente Jordana (Spain), E. Weismann (Switzerland), O. N. Allen (USA), S. Galen Bradley (USA), Mortimer P. Starr (USA), P. Arne Hansen (USA), S. C. Rittenberg (USA), George P. Kubica (USA), E. H. Runyon (USA), Julia Mendez (Uruguay), C. A. Peluffo (Uruguay), Ladislao Pollak (Venezuela), Stanko Banic (Yugoslavia), P. Zivojin Tesic (Yugoslavia), and R. E. Buchanan (Life Member).

Also present were the Permanent Secretaries, W. A. Clark and H. P. R. Seeliger, and the Editorial Secretary, E. F. Lessel.

Members of taxonomic subcommittees present were: L. H. Turner, C. Borg-Petersen, E. A. Freundt, D. G. ff. Edward, F. M. Rountree, and M. T. Parker.

¹ During the Xth International Congress for Microbiology, the name "International Committee on Nomenclature of Bacteria" (ICNB) was changed to "International Committee on Systematic Bacteriology" (ICSB). This name became official when the new Statutes of the ICNB were accepted by the final Plenary Meeting of the International Association of Microbiological Societies on 14 August 1970.

Minute 3. Resignations. The secretary read the names of members who have resigned from the Committee. They are E. Billing (England), F. Kauffmann (Denmark), and C. B. Philip (USA). The Committee accepted these resignations with thanks to the retiring members for their efforts on the Committee's behalf.

Minute 4. Deceased members. The secretary read the names of Committee members who have died. They are I. Emmanouiloff (Bulgaria), N. Nestorescu (Rumania), S. D. Rubbo (Australia), and A. Sordelli (Argentina). The Committee observed a moment of silence in honor of these deceased members.

Minute 5. Approval of alternates. The secretary submitted the names of the alternates listed below to the Committee. The Committee approved these as presented: Christian Kunz (alternate for F. Potsch), Austria; Ivan Malek (alternate for Oleg Lysenko), Czechoslovakia; Wilhelm Frederiksen (alternate for Ida Ørskov), Denmark; H. Chr. Engbaek (alternate for Erik J. Petersen), Denmark; N. Oker-Blom (alternate for K. Penttinen), Finland; J. Papavassilou (alternate for Maria Pavlatou), Greece; J. A. R. Miles (alternate for M. Buddle), New Zealand; Roman de Vincente Jordana (alternate for E. Feduchy), Spain; Julia Mendez (alternate for Blanca Werner de Garcia), Uruguay; S. C. Rittenberg (alternate for C. B. van Niel), USA; E. Runyon and G. Kubica (alternates for S. C. Rittenberg and O. N. Allen on Day 1 of meetings), USA.

Minute 6. Election of new members. The Committee elected to its membership the following: F. Gasser (France), M. Piéchaud (France), E. Küster (Germany), Ralph H. W. Schubert (Germany), T. Fujino (Japan), H. Iizuka (Japan), N. Okabe (Japan), S. Shibata (Japan), Y. Tsunematsu (Japan), H. Dikken (Netherlands), H. Fey (Switzerland), P. Ritter (Switzerland), S. Faine (Australia), W. Köhler (German Democratic Republic), Houang (Morocco), Carlos Batthyany (Uruguay), Maria Del Carmen Cubria (Uruguay), Blanca Werner de Garcia (Uruguay), Ciro A. Peluffo (Uruguay), Julio Riet (Uruguay), M. Shilo (Israel), D. Sompolinsky (Israel), Y. Henis (Israel), P. Arne Hansen (USA), Mortimer P. Starr (USA),

Seung Hahm Park (Korea), and L. C. Yen (China).

Minute 7. *Minutes of the Moscow (1966) meeting.* The Committee accepted the minutes of the previous meeting as published (IJSB 17(1):73-79 [1967]).

Minute 8. *Appointment of Nominating Committee.* The Chairman appointed W. A. Clark, T. Gibson, H. Lautrop, L. LeMinor, and S. Slopek to constitute a nominating committee with the charge to form a slate for the offices of chairman and vice-chairman of the ICNB, the four Judicial Commissioners for the 13th Class, and one for the 11th Class (to fill the vacancy created by T. Gibson's resignation).

Minute 9. *Approval of the agenda.* The Committee approved the agenda as published (IJSB 20(2):225 [1970]).

Minute 10. *Voting procedures.* The Committee decided to vote by a show of hands, except in the election of officers and commissioners, where the vote was by written ballot.

Minute 11. *Recommendation of Judicial Commission to remove Provisions 4 and 5 from the Code.* The ICNB unanimously agreed to adopt the recommendation of the Judicial Commission to remove Provisions 4 and 5 from the *International Code of Nomenclature of Bacteria* and to replace them with the new Statutes of the International Committee on Systematic Bacteriology (formerly ICNB) to be published under the same cover with the Code. A short new Provision 4 in the Code will explain the essential points of the statutes.

Minute 12. *Consideration of the Statutes.* The Chairman had drafted the proposed Statutes of the ICNB to replace Provisions 4 and 5 of the *International Code of Nomenclature of Bacteria*, providing rules to govern the organization and operation of the ICNB and its subcommittees, including the Judicial Commission. This draft was first discussed at a meeting of the Judicial Commission at Leicester in 1968. Subsequently, the Chairman consulted personally R. E. Buchanan, W. A. Clark, and E. F. Lessel at length regarding the statutes. Finally he distributed copies of the proposed statutes, with comments and questions pertinent to changes made to each member of the ICNB and to the chairmen of the taxonomic subcommittees. Fifty-three ICNB members of the total 120 replied. Comments received, exchanges back and forth, and notes on action required or possible amendments deemed advisable were compiled and sent to ICNB members prior to the Mexico City meeting.

In Mexico the Committee agreed:

Item 12-1: to accept en bloc those

Articles, or sections of Articles, for which no comments were received or for which comments were satisfactorily discussed with the members concerned, with the exception of questions relating to co-opted members and the Chairman's term of office.

Item 12-2 (On Co-opted Members): to amend paragraph 4 of Article 2 to read, from the second sentence, as follows. "Proposal of a member for co-option may be made in writing to the Executive Secretary of the ICSB by any organization within the country not represented or by another member Society. Such co-opted members shall serve until the end of the next Plenary Meeting of the ICSB. Co-opted members shall have the right to vote."

Item 12-3 (Voting Procedures): to add the following new paragraph following paragraph 4 of Article 2.

"Each member is entitled to vote in the Committee. Decisions shall be based on a majority of the members present voting "yes" or "no." Abstentions will not be counted. In postal ballots decisions shall be based on the votes received—not on the number of members eligible to vote."

Item 12-4: Article 3, (1) Intervals between Plenary Meetings to be amended to read, "... such Plenary Meetings shall be held at intervals of not more than four years. . . ."

Item 12-5: to amend Article 3 (5) to read as follows. "To consider and vote upon all recommendations made by the EBICSB relative to matters listed under the Functions of the EBICSB (Article 4)."

Item 12-6: to amend Article 3 (6) to read, in line 2, "... infrasubspecific subdivisions of species and subspecies."

Item 12-7: to insert a new clause (8) in Article 3 to read as follows. "(8) To consider and to vote upon all recommendations submitted by the EBICSB relating to amendments of the Statutes of the ICSB and renumber succeeding clauses as required."

Item 12-8: to insert a new clause (12) following the new clause (11) to read as follows. "(12) To establish Publications deemed necessary for the advancement of systematic bacteriology."

Item 12-9 (Membership of Executive Board, ICSB): to amend the statement on membership in paragraph one of Article 4 to read as follows. "The membership of the Board shall be: The Chairman and the Vice-Chairman of the ICSB, the Executive Secretary, the Secretary for the Subcommittees, the Editorial Secretary, the Treasurer of the ICSB, and two

members-at-large. The Chairman of the Judicial Commission shall be, ex officio, a member of the Executive Board."

Item 12-10: to delete clause 5 of Article 4, as this function was consigned elsewhere to the Judicial Commission, and to renumber the succeeding clauses.

Item 12-11 (Establishment of a Publications Committee): to amend Article 4 (8) to read as follows. "*To recommend to the ICSB, the establishment of a Publications Committee and to act upon the Publications Committee's recommendations in respect to the establishment of Editorial Boards for various publications.*"

Item 12-12: to amend Article 4 (9) to read, "(9) to *recommend to the ICSB the establishment of* such publications . . ."

Item 12-13: to amend Article 4 (10) to read, "(10) upon approval of the ICSB to (i) establish publications authorized by the ICSB; (ii) - original (i); (iii) - original (ii).

Item 12-14: to amend Article 4 (13) to read, "(13) to administer Article 15 (amendments to the Statutes)."

Item 12-14a: to amend Article 5—1st sentence line 3 by adding the words "for a maximum of three terms."

Item 12-15: Article 6a (1), to add the words "to the Editorial Secretary" after the word "meetings" in line 2.

Item 12-16: to amend Article 6a (6) by the addition of the following new paragraph.

"Where such appointments are not in accordance with the Statutes of the ICSB or the IAMS or where proposals are made for membership from countries without member Societies, the Executive Secretary shall refer the matters to the ICSB for determination."

Item 12-17: Article 6a (7), to add the words "the Editorial Secretary" after the words "Judicial Commission" in line 4.

Item 12-18: to amend Article 6b (3) to read, "(3) act as liaison Secretary to all Subcommittees on Taxonomy and transmit their Reports and Minutes to the Editorial Secretary and Requests and Recommendations to the EBICSB or the Judicial Commission, whichever is appropriate."

Item 12-19: to amend Article 6b (5) by the addition of the words "and the Editorial Secretary for publication in the IJSB."

Item 12-20: to amend Article 6c (3) by the insertion of the words "by him" after the word "transmission" in line 3; and addition of the words "and to the Editor of the IJSB for publication."

Item 12-21: to delete the word "to" at

the beginning of clauses (4) and (5) of Article 6c.

Item 12-22: to combine Article 6c (6) and 6c (8) to read as follows. "(6) Receive Minutes and Reports from the Subcommittees on Taxonomy from the Secretary for Subcommittees, transmit them to the Chairman of the ICSB, and collaborate with the Chairman of the ICSB in the preparation of statements from the Reports and Minutes of the Subcommittees on Taxonomy for Publication in the International Journal of Systematic Bacteriology."

Item 12-23: to amend Article 6c (7) by the deletion of the initial word "to" and the addition of the words "for consideration by the Judicial Commission."

Item 12-24: to insert a new clause (8) in Article 6c to read, "receive all other submissions for publication in the IJSB and transmit them, with or without prior editing, to the Editor of that Journal."

Item 12-25 (Election of Treasurer): to amend the first sentence of Article 7 to read as follows. "The office of Treasurer of the ICSB may be combined with that of the Executive Secretary on recommendation of the EBICSB."

Item 12-26: Article 7 Duties of the Treasurer, to amend the third paragraph third line to read, "...and the ICSB, and the Secretary-Treasurer of IAMS, at each Plenary Meeting of the ICSB."

Item 12-27: Article 8 Terms of Commissioners, to delete paragraph 2 under "Organization of a Judicial Commission" and insert in its stead the following paragraph.

"Commissioners are elected to serve in three classes of four Commissioners each, one class retiring at the close of each *Plenary Meeting of the ICSB*. Members retiring are eligible for reelection."

Item 12-28: Article 8 - provision (b), to amend provision (b) by substituting the word "may" for the word "will" and the words "Plenary Meeting" for the word "Congress."

Item 12-29: to amend Article 8a (5) line 1 to read, "To receive requests for Opinions *through* the Editorial Secretary, to edit the requests and assist in the preparation of . . ."

Item 12-30: to amend Article 8a (6) line 11 to read, "To receive *through* the Editorial Secretary requests . . ."

Item 12-31: to add to the end of Article 8a (7) the words "and on virology."

Item 12-32: to amend the second paragraph of Article 8b (2) to read as follows.

"An Opinion shall be issued when eight or more Commissioners vote in favor of it. All Opinions shall be reported to the ICSB and

unless rescinded by a majority of those voting in this Committee such Opinions shall be considered final."

Item 12-33: to amend the first three lines of Article 8b (3) to read as follows. "To consider each proposal for emendation of the International Code of Nomenclature of Bacteria. When approved by eight or more Commissioners, such proposal . . . etc."

Item 12-34: to amend Article 8b (4) by inserting before the end of the first sentence the words, "and to request revision of these recommendations when necessary."

Item 12-35: to amend Article 8b (5) (i) by the insertion after the words "(nomina conservanda)" the words "or rejected names (nomina rejicienda)."

Item 12-36: Article 8b (6), to substitute "election *by* the ICSB" for "election *of* the ICSB" in the last line.

Item 12-37: to amend Article 9 (3) last sentence to read as follows.

"The Secretary for Subcommittees on Taxonomy shall arrange for the election of the Chairman and the Secretary: (i) when requested to do so by the Secretary or the Chairman when the other office falls vacant; or (ii) when requested to do so by members of the Subcommittee when both offices fall vacant simultaneously . . ."

Item 12-38: Article 9 (5), to substitute the word "restricted" for the word "closed" in line 3 and to add the words, "Subcommittees may hold additional meetings at times other than at Plenary meetings of the ICSB."

Item 12-39: to add to Article 9 (8) (iv) the following. "If the paper is itself published in the IJSB, citation of endorsement by the Subcommittee, inserted under the title and authorship of the paper, would be adequate."

Item 12-40: to amend Article 10 (ii) to read, "make recommendations to the ICSB through the EBICSB for the establishment . . ."

Item 12-41: to amend Article 11 (a) (iii) to read as follows. "(iii) The Board *may* receive . . ."

Item 12-42: to amend Article 11 (b) (ii) by the deletion of the words "either directly or" from line 1.

Minute 13. *Vote on adoption of Statutes.* The ICNB voted unanimously to adopt the new Statutes as modified at this meeting. They became effective from the close of the Xth International Congress. The EBICSB was authorized to make further amendments to the Statutes which are necessitated by changes in the Statutes of the IAMS.

Minute 14. *Proposals to be put to IAMS*

regarding number of representatives and terms of office. The Committee voted to ask J. M. Vincent as an Australian delegate to IAMS to put the following proposals to the Plenary Meeting on behalf of ICNB.

(1) (a) That article 7 (c) read: An International Committee is composed of at least one representative, etc.

(b) That the separate committees have the power to increase membership according to their particular needs up to a total of 5 members from each country.

(c) that any objections by member societies to the composition of such committees can be raised with IAMS.

(2) That part 2 of article 8B be modified to provide that:

(a) The office of Secretary General of IAMS be the only one exempt from reelection at each session.

(b) That office-bearers of Committees etc. be subject to reelection at each session and that tenure of the positions of Chairman and Vice-chairman be limited to a total of 2 to 3 terms (8-9 years according to interval between Congresses).

Minute 15. *Report on revision of International Code of Nomenclature of Bacteria.* P. H. A. Sneath, Chairman of the Judicial Commission, reported that the ICNB at the Moscow (IXth) Congress had decided to publish the Code in book form. The new statutes of the IAMS made necessary the creation of new ICNB statutes to conform to those of the parent body. Subsequently, in 1969 the ICNB voted by mail ballot to rescind its decision to publish the version of the Code ratified at the IXth Congress pending the drafting of new statutes for ICNB and further revisions.

The Judicial Commission met in Leicester in 1968 and established a drafting committee for a new revised Code, with S. Lapage in charge. The drafting committee was asked: (1) to remove Provisions 4 and 5 which deal with organization of the ICNB, its taxonomic subcommittees, and the Judicial Commission (these provisions to form a basis for the new Statutes of ICNB); (2) to obtain a logical and clear order; and (3) to simplify the wording but at the same time essentially retaining the present Code.

The new draft will contain a glossary and a concordance relating the new Code to the old. The Commission decided to recommend the use of lists of valid bacterial names to alleviate some of the nomenclatural problems posed by existing old names which were proposed before the Code was in existence and whose applica-

tions cause difficulties. (See Lapage report below, Minute 17.)

The new draft will be circulated to the ICNB after it is finished and then published in IJSB as a draft Proposed Code. Hopefully it will be ready for final approval at the next International Congress.

Minute 16. *Proposal from the Judicial Commission for emendations to the present (Moscow) revision of the Code.* There were a few minor changes in the present Code, approved by the Judicial Commission, which were presented to the ICNB for their consideration and approval at the present meeting:

Item 16-1. *Emendation of Principle 7.* The Drafting Committee considered that the categories *sections*, *subsections*, *series*, and *sub-series* were not of such service as to require formal regulation under the Rules. (See also Item 3 below.)

Action proposed: Emend Principle 7 by deleting paragraph (b) and emend the lettering of the third paragraph from (c) to (b). Accepted by the ICNB. Delete appropriate names in the list in 7e and renumber.

Item 16-2. *Emendation of Principle 11.* It was considered that the term "nominifer," or "nomenifer," was not sufficiently used to require mention in the Code. The additional note appears to be useful in the interests of clarity.

Action proposed: Emend Principle 11 by deleting "nominifers" and add at the end of Principle 11 the following. "The nomenclatural type is not necessarily the most typical or representative element of a taxon." Accepted by the ICNB.

Item 16-3. *Emendation of Rule 5d.* *Action proposed:* Replace Rule 5d by the following (see Item 16-1 above). "Rule 5d. Sections, subsections, series, and subseries are informal categories not regulated by the Rules of this Code. Their designations do not compete with names of genera and subgenera as to priority and homonymy." Accepted by the ICNB.

Item 16-4. *Emendation of Rule 9d (3).* *Action proposed:* In line 2 after "failed to designate a type strain," insert "(see Rule 9d(1) Note 2[b])." This cross reference is proposed to clarify the kind of type strain that is referred to here, i.e., it is not a neotype strain that is meant. Accepted by the ICNB.

Item 16-5. *Emendation of Rule 11.* *Action proposed:* Replace the first paragraph of Rule 11 by the following. "Rule 11. Publication is effected under this code by making generally available, by sale or distribution, to the scientific community printed material for

the purpose of providing a permanent record. No other kind of publication is accepted as effective, nor are the following:

(1) communication of new names at a meeting or in minutes of a meeting, or after 1950 in abstracts of papers presented at meetings.

(2) placing of names on specimens in collections or in listings or catalogues thereof.

(3) distribution of microfilm, microcards, or matter reproduced by similar methods.

(4) reports in ephemeral publications, newsletters, newspapers after 1900 or non-scientific periodicals."

The emendation is proposed to clarify the rule on effective publication and to specify certain forms of publication that are generally considered unacceptable. Accepted by the ICNB.

Item 16-6. *Emendation of Recommendation 12.* It is to be noted that the following recommendation was inadvertently omitted and was restored by the Commission by Minute 8 in the International Journal of Systematic Bacteriology, vol. 20, no. 1, p. 1. "Recommendation 12e. An author, when publishing the name of a new taxon, should designate the type, and, in the case of a species or subspecies cultivable on artificial media, or otherwise preservable in pure culture in the living state, indicate the collection where the type strain or its equivalent is deposited." Recommendation 12e should then be numbered 12f. Accepted by the ICNB.

Item 16-7. *Emendation of Rule 13 (p. 471).* A phrase was inadvertently deleted in paragraph (a) in the published form of the present (Moscow) revision and should be restored. The paragraph should read as follows.

"(a) unless it is accompanied (1) by a description of the genus or subgenus; or by citation of a previously and effectively published description of the genus as a subgenus (or subgenus as a genus) or in the case of a monotypic new genus based on a new species, by a combined generic and specific description; and (2) by a description of one or more species, or by citation of a previously published description of one or more species included in the genus." Accepted by the ICNB.

Item 16-8. *Emendation of Rule 24.* *Proposed action:* Insert after paragraph f of Rule 24 the following: "g. If the characteristics of the taxon were based upon studies of impure or mixed cultures, that is, if there is evidence that the description was based on the properties of more than one species grown in mixed culture. This statement does not apply to the name of a species or subspecies whose description is based

on morphology or other characters not dependent on cultivation in pure culture."

It was considered that this rule was of particular importance in connection with the species category, in addition to the category of genus (Rule 13 paragraph b). Accepted by the ICNB.

Item 16-9. Emendation of Provisions 1, 2, and 3. The wording of these will require changes to bring them into line with the Statutes of the ICSB (ICNB), if these are approved by the International Congress for Microbiology, in order to correct the designations of the organizations referred to there. Accepted by the ICNB.

Item 16-10. Emendation of Provision 4 (p. 482-487). The Judicial Commission recommended (IJSB 20:8, Minute 40) the removal of the existing Provisions 4 and 5 (p. 482-490) from the Code and their replacement by a short, new Provision 4 to explain the essential points of the Statutes of the ICNB. Most of the present content of these provisions are to be included in the Statutes.

The following Provision is proposed. "Provision 4. A permanent International Committee on Systematic Bacteriology (International Committee on Nomenclature of Bacteria) has been established by the International Association of Microbiological Societies. This Committee is so constituted that, wherever practicable, each country shall be represented by one member and by no more than five from each member society in that country. Further members may be co-opted with the approval of the EBIAMS and the Council of the Section on Bacteriology provided that no country shall be represented by more than five members. The organization of the Committee is summarized below; further details may be found in its Statutes.

The Committee has an Executive Board, a Publications Committee, and a Judicial Commission. The functions of the International Committee on Systematic Bacteriology (formerly the International Committee on Nomenclature of Bacteria) include the following: (1) to hold meetings as part of sessions of meetings of the Section on Bacteriology, and to sponsor sections on taxonomy at such meetings; (2) to approve the International Code of Nomenclature of Bacteria and those changes recommended by the Judicial Commission; (3) to receive and approve the Opinions issued by the Judicial Commission; (4) to set up special Subcommittees on Taxonomy to study and make recommendations on classification and nomenclature of bacterial taxa; (5) to publish

the Statutes and Code of Nomenclature, certain official lists of bacterial names, and the *International Journal of Systematic Bacteriology*.

The Judicial Commission of the International Committee on Systematic Bacteriology (International Committee on Nomenclature of Bacteria) is elected from the members of that Committee. The Chairman and Secretaries of that Committee are ex officio members of the Commission. The functions of the Judicial Commission include the following: (1) to consider all proposals for emendation of the International Code of Nomenclature of Bacteria and to recommend emendations to the International Committee on Systematic Bacteriology (International Committee on Nomenclature of Bacteria); (2) to consider all requests for Opinions; (3) to establish lists of names that have been conserved or rejected, and other lists of use in bacterial taxonomy.

The Judicial Commission considers Requests for Opinions on the interpretation of the Code and on specific exceptions to the Code (including the conservation or rejection of names of bacterial taxa) in the interests of stability. Requests for Opinions should be submitted to the Editorial Secretary of the ICSB for transmission to the Chairman of the Judicial Commission. Requests should be accompanied by a fully documented statement of the relevant facts and will be returned for revision if the evidence presented is not sufficiently adequate to allow the Commission to decide upon the case. More detailed instructions to authors of Requests are given in various issues of the *International Journal of Systematic Bacteriology*."

Changes similar to those in Provisions 1, 2, and 3 also may be required in Provision 4.

Accepted by the ICNB provided the proposed ICNB Statutes are accepted by the IAMS.

Minute 17. Proposal for a List of Approved Bacterial Names. S. P. Lapage, Chairman of the Code Drafting Committee of the Judicial Commission, proposed that the concept of a list of approved bacterial names and a new starting date in bacteriology be incorporated in the forthcoming revision of the Bacteriological Code. He distributed the following report for consideration by the ICNB.

A LIST OF APPROVED BACTERIAL NAMES

This involves the concept of a new starting date in bacteriological nomenclature.

(i) Proposed that an ad hoc Committee of the Judicial Commission prepare a list of species names of bacteria. Only bacteria would

be included for which there is an adequate description and, if the organism is cultivable, a living culture. The list would be prepared in consultation with subcommittees, other bodies, and individual workers and would be published in the IJSB with an open invitation for proposed additions.

(ii) The new code would rule that of those names published prior to a date in the future, for example, 1980, only those on the list would be considered legitimate.

(iii) Names not on the list would be considered "disused" names, but they could be admitted to the list of approved names if the author reusing the name provided an adequate description and deposited a culture, in those cases where applicable, in a culture collection.

(iv) The new code would require for the valid publication of new species names after an earlier date, e.g., 1972, in addition to the existing requirements: (a) deposition in a culture collection of a culture, if cultivable; (b) notification in the IJSB of author, title, and citation of the relevant scientific paper, and designation of the type strain and culture collection in which it was deposited; (c) as a recommendation, each description should meet minimal standards of description.

The ICNB approved the concept stated above.

Minute 18. *Report to the ICNB of Opinions issued by the Judicial Commission.* The chairman of the Judicial Commission, P. H. A. Sneath, reported that the Commission has issued the following Opinions.

Conservation of the specific epithet *rhusiopathiae* in the name *Erysipelothrix rhusiopathiae* (Migula) Buchanan against the specific epithet *insidiosa*.

Conservation of the name *Agrobacterium* Conn against *Polymonas* Lieske (type species = *Agrobacterium tumefaciens*).

Conservation of the name *Rhizobium* Frank against *Phytomyxa* Schroeter (type species = *Rhizobium leguminosarum*).

Conservation of the specific epithet *meningitidis* against all earlier specific epithets in the scientific name of the meningococcus (neotype = ATCC 13077 = NCTC 10025).

Designation of ATCC 10145 as the neotype strain of *Pseudomonas aeruginosa* (Schroeter) Migula.

Designation of ATCC 13525 as the neotype strain of *Pseudomonas fluorescens* Migula.

Conservation of *Lactobacillus* Beijerinck against *Saccharobacillus* van Laer with a new type species, *L. delbrueckii*.

Rejection of the name *Gaffkya* Trevisan.

Rejection of the names *Mima* De Bord and *Herellea* De Bord, and *Mimeae* De Bord and the specific epithets *polymorpha* and *vaginicola* in *Mima polymorpha* De Bord and *Herellea vaginicola* De Bord, respectively.

Conservation of the name *Moraxella* Lwoff against *Diplobacillus* McNab.

Conservation of the specific epithet *phenylpyruvica* in the name *Moraxella phenylpyruvica* Bøvre and Henriksen against the specific epithet *polymorpha* in the name *Moraxella polymorpha* Flamm.

Conservation of the specific epithet *sphaeroides* in the name *Rhodopseudomonas sphaeroides* van Niel.

Validation of *Chloropseudomonas* Czurda and Maresch.

Rejection of the name *Leuconostoc citrovorum* Hammer.

Rejection of the name *Aerobacter* Beijerinck.

The ICNB accepted these Opinions by majority vote.

Minute 19. *Reports of Taxonomic Subcommittees.* Brief verbal reports were presented by Subcommittees on *Streptococci* and *Pneumococci*, *Leptospira*, *Spirochaetales*, *Actinomycetes*, Numerical Taxonomy, *Staphylococcus* and *Micrococcus*, *Staphylococcus* Phage-typing, *Enterobacteriaceae*, *Haemophilus*, *Lactobacillus* and Closely-Related Organisms, *Moraxella* and Allied Organisms, *Toxoplasma*, *Mycoplasma*, *Brucella*, and *Pseudomonas* and Related Organisms. Written reports had previously been received from the Subcommittees on *Pasteurella*, *Yersinia* and *Francisella*, Gram-negative anaerobic rods, *Vibrio*, and *Mycobacterium*.

Minute 20. *Status of present Taxonomic Subcommittees.* The Secretary read a list of the presently constituted Taxonomic Subcommittees. There are subcommittees on the taxonomy of the following taxa: *Actinomycetes*; *Brucella*; *Enterobacteriaceae*; Gram-negative anaerobic rods; *Haemophilus*; *Lactobacillus* and Closely Related Organisms; *Leptospira*; *Moraxella* and Allied Organisms; *Mycobacterium*; *Mycoplasma*; *Neisseriaceae*; *Pasteurella*, *Yersinia* and *Francisella*; *Pseudomonas* and Related Organisms; *Staphylococcus* and *Micrococcus*; Streptococci and Pneumococci; *Toxoplasma*; and *Vibrio*; there are also subcommittees on Numerical Taxonomy and on *Staphylococcus* phage typing.

Minute 21. *Proposed new Taxonomic Subcommittees.* The ICNB approved the formation of two new Subcommittees, one on *Agrobac-*

terium and *Rhizobium*, and the other on *Spirochaetales*.

Minute 22. Election of Judicial Commissioners. The nominating committee presented the following names for consideration by the ICNB for election to the vacant posts of Judicial Commissioners: P. H. A. Sneath, H. Iizuka, C. A. Peluffo, S. Slopek, and M. Véron. Additional nominations from the floor were M. P. Starr, R. H. W. Schubert, W. Köhler, S. Soriano, and P. A. Hansen. Sneath, Iizuka, Slopek, and Véron were elected to the 13th Class, and Schubert was elected to the 11th Class.

Minute 23. Election of Officers and Members-at-Large of the EBICNB. The nominating committee presented the names of V. B. D. Skerman and S. Lapage for chairman and vice-chairman, respectively. S. G. Bradley was nominated for chairman from the floor. The Committee elected V. B. D. Skerman as Chairman (2nd term) and S. Lapage, Vice-chairman; they elected S. G. Bradley and R. G. E. Murray as Members-at-Large to the Executive Board of the ICNB (EBICNB).

Minute 24. Life Members. The Committee unanimously elected T. Gibson a Life Member of the ICNB.

Minute 25. Liaison with editors of bacteriological journals. The Committee decided to establish an ad hoc committee to establish communications with editors of microbiological journals for the purpose of acquainting them with up-to-date rules on bacteriological nomenclature. The Executive Committee was instructed to act on this motion.

Minute 26. Salutation to R. E. Buchanan. O. N. Allen made the following statement on behalf of the ICNB: "Some of you may not

know that Dr. R. E. Buchanan is retiring as Editor of the *International Journal of Systematic Bacteriology*. Dr. Buchanan has been Editor of the Journal since its beginning in January 1951.

Over the ensuing years the Journal has improved greatly in style and coverage. The high quality that the Journal exhibits today reflects in large part Dr. Buchanan's sponsorship, his dedication to taxonomic perfection, his loyalty, and his devotion to bacteriological systematics as a discipline.

Each of us has profited from Dr. Buchanan's counsel, his cooperation, his brilliant mind, his knowledge of the classical languages, and his guiding principles in the pursuit of accuracy. These are qualities all too rare in these or in any other times.

Dr. Buchanan has given unstintingly of his time, his energy, and his talent. He has shown to each of us the precious gifts of courtesy and cooperation.

May I request that we stand and applaud in our profound thanks and sincere appreciation."

Minute 27. Royalties to the ICNB. V. B. D. Skerman has assigned the royalties accruing from his *Abstracts of Microbiological Methods* to the ICNB for use in carrying out its functions. The Committee thanked Skerman for his generous gift and applauded him for setting this example for others to follow.

Minute 28. Outgoing vice-chairman. The Committee thanked S. D. Henriksen for his help and advice during the past four years as vice-chairman of the ICNB.

The meeting adjourned.

William A. Clark
Executive Secretary