Judicial Commission of the International Committee on Systematics of Prokaryotes

XIth International (IUMS) Congress of Bacteriology and Applied Microbiology

Minutes of the meetings, 3, 4 and 6 August 2008, Istanbul, Turkey

Session 1

Minute 1. Call to order. The chairman, B. J. Tindall, called the meeting of the Judicial Commission (JC) to order at 09:00 on 3 August 2008 in the Taksim Gonen Hotel, Istanbul, Turkey.

Minute 2. Record of attendance. Present were B. J. Tindall (Chairman, JC); G. M. Garrity (Vice Chairman, JC); F. A. Rainey, N. A. Logan, P. Kämpfer (Editor, International Journal of Systematic and Evolutionary Microbiology); K.-I. Suzuki, P. De Vos, S. Ventura, A. Oren (Chairman, ICSP); H.-J. Busse (Vice Chairman, ICSP); S. B. Kim (Editorial Secretary, ICSP); D. P. Labeda (Executive Secretary/Treasurer, ICSP) and A. Ventosa (Secretary for Subcommittees, ICSP). J. P. Euzéby, T. Ezaki and R. Rosselló-Móra joined the meetings in sessions 2 and 3. An apology for absence was received from H. G. Trüper.

Minute 3. Adoption of the agenda. The agenda was adopted as circulated.

Minute 4. Minutes of the 2005 meeting. The minutes of the San Francisco meeting in 2005 were accepted as published [Int J Syst Evol Microbiol 58 (2008), 1737–1745].

Minute 5. Matters arising from the minutes of the 2005 meeting. (1) Deletion of the superfluous note attached to Rule 24b. G. M. Garrity suggested removing Note 1 of Rule 24b and changing the wording of the Rule to reflect that the publication of names is ‘serialized’. A note should be drafted by the JC and the change should be approved by the ICSP.

(2) An ad hoc committee to regulate the nomenclature of higher taxa with input from the community is to be formed. G. M. Garrity agreed to serve as coordinator. The Product should be a ‘white paper’ in collaboration with the ICSP and JC.

(3) The JC should try to be less ‘obscure’ and to improve its relations with the general scientific community in order to bridge the gap between regulations and day-to-day laboratory work.

(4) Publication of the new Code was discussed; however, there is a lack of money and it is not clear whether a contract exists with the Society for General Microbiology (SGM) for the publication of the Code. It was agreed that there should be renewed communication with the SGM about a contract. Possible online publication and funding implications were also discussed. B. J. Tindall raised the idea of reviving a Publications Committee, based on Article 10 of the Statutes of the ICSP, which could possibly be charged with obtaining funding for publications.

Minute 6. Appointment of a nominating committee. A nominating committee was appointed, consisting of D. P. Labeda, A. Oren and B. J. Tindall.

Minute 7. The van Niel International Prize for Studies in Bacterial Systematics. The JC congratulated Matthew David Collins as the recipient of the van Niel International Prize for Studies in Bacterial Systematics, awarded by The University of Queensland.

Minute 8. Appointment of Hans G. Trüper as a life member of ICSP. The JC unanimously endorsed the appointment of Hans G. Trüper as a life member of ICSP.

Minute 9. Actions on proposals to emend the Code. All proposals to emend the Code were discussed with the exception of B. J. Tindall’s proposal to eliminate the concept of legitimate and illegitimate names along with the necessary changes to the wording of the Code. The discussion of this proposal was moved to a later time.

(1) Proposal by D. R. W. Watson and J. M. Young that the ICSP establish a public database of validly published names and that the Code be amended to change the prescription for citation of validly published names.

(1) All members agreed that there is a need for an official, searchable, public database as well as a working database interface to enable communication between unrelated databases in order to avoid the problem of propagating false information. G. M. Garrity briefly outlined the NamesforLife project after B. J. Tindall raised the questions of who would fund and maintain such a database. B. J. Tindall discussed the possibility of reviving a historically active Publications Committee in order to publish the database in print and online; however, this suggestion was not pursued in detail.
(ii) There is a long-standing problem that validly published names that came into circulation since the 1800s are cited as the 8th edition of Bergey's Manual of Determinative Bacteriology for their type and description on the Approved Lists. However, since there may have been undocumented emendations between the original publication and the publication of the 8th edition of Bergey's Manual, the descriptions in Bergey's Manual often do not match the original descriptions. All members agreed that there is a need to check the references for the original description for all names on the Approved Lists. G. M. Garrity related that NamesforLife has started the process and it is near completion. B. J. Tindall suggested that NamesforLife and the ICSP pool their resources in terms of expertise to address any outstanding problems. All members agreed that: (a) G. M. Garrity should write a note explaining the NamesforLife project in order to inform the general microbiology community of the resource; (b) The superscripts VP and AL should be incorporated into the Code and (c) authorship should refer to the publication.

(2) A proposal by G. E. Felis and F. Dellaglio to introduce the status species proponenda (sp. pr.) for species descriptions based on a single strain was discussed.

The commission came to the conclusion that this is a matter of taxonomy and not of nomenclature, and it is thus outside the scope of the Code. However, there should be an official comment by the JC to point out the key problems. A committee including B. J. Tindall, G. M. Garrity, N. A. Logan, D. P. Labeda and P. De Vos was appointed to write an appropriate comment.

(3) A proposal by B. J. Tindall to change the wording of Rule 15 of the Code was discussed. The current Rule 15 contradicts the general principle of priority. The discussion was centred on whether to change the wording of the Rule or to change the epithets of affected names in order to follow priority. It was agreed unanimously to change the wording of Rule 15 to:

‘A taxon consists of one or more elements. For each named taxon of the various taxonomic categories (listed below), there shall be designated a nomenclatural type. The nomenclatural type, referred to in this Code as ‘type’, is that element of the taxon with which the name is permanently associated, whether as a correct name or as a later heterotypic synonym. The nomenclatural type is not necessarily the most typical or representative element of the taxon. The types are dealt with in Rules 16–22’.

As an example, the case of Agrobacterium tumefaciens–Rhizobium radiobacter can be cited. A note should be prepared to explain the proposed change.

(4) A proposal by B. J. Tindall to clarify Rule 24a of the Code was discussed. Rule 24a states that names validly published between 1 January 1978 and 1 January 1980 are included on the Approved Lists. The Rule also states that no further names will be added to the lists and that names published prior to 1 January 1980 and not included on the lists have no standing in nomenclature. There are five instances of names that were validly published between 1978 and 1980 that were left off the Approved Lists. The question discussed was whether to change the Approved Lists by making exceptions for these on a case-by-case basis or to consider the affected names as not validly published. Ten members of the commission voted against changing the Approved Lists, two members voted in favour of changing the Approved Lists and one member abstained. Therefore the five names affected are not considered to be validly published.

(5) A proposal by B. J. Tindall and G. M. Garrity was discussed to clarify the way authorship of a subspecies name that is automatically created under Rule 40d of the Code is cited. The commission agreed (12 in favour, one abstention) to keep the principle of Rule 40d the same but to change the way that authorship is cited to the original author of the epithet followed by the author of the subspecies.

Example: Vibrio subtilis Ehrenberg → Bacillus subtilis comb. nov. Cohn → Bacillus subtilis subspecies subtilis subsp. nov. Nakamura. The correct authorship of the subspecies is Bacillus subtilis subspecies subtilis (Ehrenberg) Nakamura [Ehrenberg for the epithet and Nakamura for the new subspecies].

(6) It was agreed unanimously to endorse the Letter to the Editor published by B. J. Tindall: Confirmation of deposit, but confirmation of what? [Int J Syst Evol Microbiol 58 (2008), 1785–1787].

(7) It was agreed unanimously to endorse the proposal by B. J. Tindall and G. M. Garrity to clarify how type strains are deposited and made available to the scientific community for the purpose of systematic research [Int J Syst Evol Microbiol 58 (2008), 1987–1990].

(8) A proposal by J. P. Euzéby to modify Rule 8 of the Code was discussed. Rule 8, as it stands, contradicts Principle 4. It was agreed unanimously to change the wording of Rule 8 by adopting the wording suggested by J. P. Euzéby, except for the stipulation that the change should not be retroactive. The commission did not see any apparent reason why the change should not be retroactive. The wording agreed upon is:

‘The name of each taxon (covered by the Code) above the rank of order is a Latin or latinized word. The name of a class is in the neuter gender, the plural number and written with an initial capital letter. The name is formed by the addition of the suffix -ia to the stem of the name of the type genus of the type order of the class.

The name of a subclass is in the feminine gender, the plural number and written with an initial capital letter. The name is formed by the addition of the suffix -idae to the stem of the name of the type genus of the type order of the subclass’.
The following other issues were discussed:

(i) A question brought forth by Robin Dunford: Should the terms protozoan/protozoa be changed to protist/protists in IJSEM and in the Bacteriological Code? It was agreed (12 in favour, one abstention) to consult an expert and to change the terms protozoan/protozoa to protist/protists if this is recommended by the expert.

(ii) A proposal by J. P. Euzéby that the wording in the Code with regard to the term ‘printed matter’ should uniformly refer to ‘printed and/or electronic matter’. This proposal was unanimously accepted.

(iii) A question raised by B. Osterman as to whether the dates of priority should be determined by the date of acceptance by the journal or the date of publication.

It was agreed unanimously to maintain the current procedures in terms of priority: it is determined by the date of publication.

(iv) A request by the International Society for Plant Pathology Committee on the Taxonomy of Plant Pathogenic Bacteria to include a recommendation in the Bacteriological Code that when the type of an infra-subspecific taxon (pathovar) is elevated to the rank of a new species or subspecies, the types or reference strains of the infra-subspecific taxa should serve as the type of the new species or subspecies.

It was agreed to comment that this request is outside the scope of the JC and the Bacteriological Code.

Minute 10. Adjournment. The chairman B. J. Tindall adjourned the meeting at 12:35.

Session 2

Minute 11. Call to order. The chairman B. J. Tindall called the meeting to order at 09:00 on 4 August 2008 in the Taksim Gönen Hotel, Istanbul, Turkey.

Minute 12. Matters arising from the minutes of the 2005 meeting (addition to Minute 5). (v) A paper will be published in IJSEM clarifying Rule 37a of the Code.

(vi) In regard to Rule 15: There are some names that were formed incorrectly. It was decided unanimously to correct the names and assign authorship to the original authors with the original type and description. The names will be treated as if they were published in the original publications. An opinion will be issued by the JC explaining this action.

Minute 13. Other actions on proposals to emend the Code. Problems associated with the concepts of legitimate and illegitimate names in the Code were discussed. These included: (1) Rule 51 has nothing to do with legitimate and illegitimate names, it has to do with taxonomic interpretation, and (2) appearance of a name in the IJSEM does not make it validly published; the name also has to be in accordance with the rules of the Code. This leads to the problem that there are illegitimate names that are nonetheless validly published. If a name is not in accordance with the Code, it should not be validly published. This requires more rigor on the part of the editors of the IJSEM in the acceptance process. All names, including those to be added to validation lists, should be double-checked as to their accordance to the Code. It was unanimously decided to move further discussion of this topic to the next meeting of the JC in order to allow for discussion amongst members in the interim. It was also decided that J. M. Young should be strongly encouraged to present a written document explaining his opinion on the matter.

Minute 14. Other matters relating to the Code.

(1) B. J. Tindall delivered a lecture at the Linnean Society: ‘Should the registration of names be compulsory?’ Registration was attempted in Botany but did not succeed. Zoologists have indicated some interest. The opposing lecture argued against using the Internet for the publication of taxonomic descriptions and had little to do with the registration of names.

(2) An update was presented on the International Commission on Bionomenclature. There is a strong need for microbiologists, botanists and zoologists to communicate.

(3) G. M. Garrity attended the Nomina 2 meeting at Woods Hole, MA, USA. There was a discussion about a global names index and architecture sponsored by the Global Biodiversity Information Facility (GBIF) and the Encyclopedia of Life. These organizations would like a simple registration of names and are trying to design a system using persistent identifiers. The Nomina 2 meeting was dominated by the Encyclopedia of Life and appeared to be focused on coercing the community to contribute content to the Encyclopedia of Life. Microbiology/Bacteriology is in a unique position (in comparison with Botany and Zoology) because of the insistence on peer-reviewed publications. In principle, the IJSEM already functions as a registry.

(4) B. J. Tindall reported on the discussion document published by the UK House of Lords Select Committee on Systematics and Taxonomy.

(5) There is interest from the Linnean Society to expand into microbiology. B. J. Tindall was elected to the board and was charged with organizing a session on microbiology at the Linnean society meeting in Mexico. The JC proposed that a member of the ICSP should attend that meeting and that the ICSP should make a donation of $500 to the Linnean Society to sponsor a lecture on microbiology. This proposal was approved (12 in favour, one against).

Minute 15. International Journal of Systematic and Evolutionary Microbiology. B. J. Tindall called for improved communication between the Editorial Board of IJSEM and the ICSP and the JC.
Minute 16. Opinions awarded since 2005. A correction is needed to Opinion 75 on Methanotherix in regard to authorship. The authorship is that of the name Methanoseta thermophila. This will appear as a correction in IJSEM.

Minute 17. Pending Requests for an Opinion.
(1) A Request by G. E. Felis, S. Torriani and F. Dellaglio regarding the status of the species Lactobacillus rogosae Holdeman and Moore 1974. The problem discussed was whether the type strain corresponds to the original description. It was agreed unanimously that there should be further investigation of the type material and a decision should be deferred until the next meeting. This will be published as Opinion 88.

(2) A Request by J. P. Euzéby and B. J. Tindall that there should be a replacement name for the specific epithet aurantiaca in Micromonospora aurantiaca Sveshnikova et al. 1969 (Approved Lists 1980) and a proposal to treat the combination Micromonospora aurantiaca Sveshnikova et al. 1969 as a rejected name.

(i) It was agreed that the name Micromonospora aurantiaca is illegitimate, cannot be maintained under the Code, and that it should be replaced.

(ii) It was agreed that the epithet aurantiaca in Micromonospora aurantiaca should be replaced with the epithet sandarakina.

(iii) It was agreed to accept the proposal that Micromonospora sandarakina should be cited as having the type strain ATCC 27029 (=DSM 43813=JCM 10878=NBRC 16155=NRRL B-16091=VKM Ac-1936) and the description is as cited on the Approved Lists. However, there should be a comment by the JC about the possible equivalence of strains.

(iv) It was agreed (ten in favour, three against) to reject the name Micromonospora aurantiaca (Sveshnikova et al. 1969) in order to avoid confusion.

(v) It was agreed to discuss the authorship and date for the replacement name (nom. nov.) at a later time.

This will be published as Opinion 89.

(3) A proposal by J. Edwards, E. Baque and J. Tang to acknowledge Beijerinck as the original author of the species Pantoea agglomerans.

(i) It was agreed that the correct authorship of Enterobacter agglomerans should read Enterobacter agglomerans (Beijerinck 1888) Ewing and Fife 1972.

(ii) It was agreed that the correct authorship of Pantoea agglomerans should read Pantoea agglomerans (Beijerinck 1888) Gavini et al. 1989.

This will be published as Opinion 90.

(4) A proposal by S. Landon and J. Tang to list ATCC 43642 as the type strain of Leptospira interrogans in the Approved Lists of Bacterial Names.

It was agreed to accept the ATCC accession and the DSMZ accession (accession was in progress at the time of the meeting) as the type strain for Leptospira interrogans. This will be published as Opinion 91.

(5) A request by H. Neimark, W. Peters, B. L. Robinson and L. B. Stewart concerning the validity of the name Mycoplasma. It was decided to discuss this request at a later time (see Minute 23).


(i) It was agreed unanimously to reject the proposal that neotypes should be designated for both names or that the genus name Halovibrio and the species name Pseudomonas halophila, Halovibrio variabilis and its homotypic synonym Halomonas variabilis should be rejected.

(ii) It was agreed unanimously to reject the proposal to apply the description for Pseudomonas halophila to Halovibrio variabilis and to apply the description published for Halovibrio variabilis to the name Pseudomonas halophila.

(iii) It was agreed to recognize the fact that the strains DSM 3050 and DSM 3051 have been wrongly associated with the names and descriptions.

It was also agreed that the following steps should be taken:

(i) The type of the name Halovibrio variabilis Fendrich 1989 is to be regarded as DSM 3050, not as currently published DSM 3051.

(ii) The circumscription of the genus Halovibrio should be emended as proposed by Sorokin et al. (2006).

(iii) DSM 3051 should be recognized as the type strain of Pseudomonas halophila. The species name Halomonas variabilis (Fendrich 1989) Dobson and Franzmann 1996 is to be rejected, because it does not belong to the family Halomonadaceae.

(iv) Accepting the proposal of the new combination Halomonas utahensis nom. nov. (homotypic synonym of Pseudomonas halophila) to accommodate strain DSM 3051, with Sorokin and Tindall 2006 being the authority of the name. The type strain is DSM 3051. The circumscription is emended, based on the original data of Fendrich (1988) [Fendrich, Syst Appl Microbiol 11 (1988), 36–43], together with the 16S rRNA gene sequence data of Dobson et al. (1993) [Dobson et al., Int J Syst Bacteriol 43 (1993), 665–673] and the chemotaxonomic data of Franzmann & Tindall (1990) [Franzmann & Tindall, Syst Appl Microbiol 13 (1990), 142–147].

(v) Recognizing that the species name Halovibrio de-nitrificans was validly published by Sorokin et al. (2006). This will be published as Opinion 93.

(7) A proposal by J. M. Young, S. R. Pennycook and D. R. Watson that Agrobacterium radiobacter has priority over Agrobacterium tumefaciens.
(i) It was agreed (14 in favour, one abstention) that the name *Agrobacterium radiobacter* has priority over *Agrobacterium tumefaciens* when the two are considered to be synonyms.

(ii) It was agreed to make a change in Rule 15 to avoid conflict with the principle of priority (see Minute 9.3).

(iii) It was agreed to follow the suggestions as discussed under Minute 9.3.

This will be published as Opinion 94.

(8) A proposal by B. J. Tindall and J. P. Euzéby that *Lysobacter enzymogenes* subsp. *enzymogenes* Christensen 1978 and *Streptococcus cassiniflavus* (Mundt and Graham 1968) Vaughan *et al.* 1978 should have been cited in the Approved Lists of Bacterial Names.

(i) It was decided (13 in favour, one against, one abstention) that these names should be considered as having been in accordance with the rules of the Code at the time the Approved Lists were compiled.

(ii) It was agreed unanimously that the names should not be considered as having been included on the Approved Lists (see Minute 9.4).

This will be published as Opinion 95.

(9) A request for an opinion regarding the status of the species *Leifsonia rubra* Reddy *et al.* 2003. At the time of publication four collection numbers were cited, but none refer to the authentic type material. This is in contradiction to Rule 20.

The original request was for the rejection of the name and the proposal of a neotype (but no neotype was actually proposed). It was agreed (14 in favour, one abstention) that the name could not be rejected at the present time as there is no basis in the Code for rejecting the name. The deposit of a neotype should be encouraged and the issue should be readdressed later.

This will be published as Opinion 96.

**Minute 18. Return to previous Requests/Opinions.**

(1) Opinion 75. The discussion was moved to a later date (see Minute 22.2).

(2) Opinion 79. The discussion was moved to a later date (see Minute 22.1).

(3) Opinion 83. Opinion 83 ruled that the subgenus names *Moraxella* subgen. *Moraxella* and *Moraxella* subgen. *Branhamella* should have been included on the Approved Lists of Bacterial Names. The Opinion further included a change to Rule 24a.

(i) It was agreed that these names were not in accordance with the Rules of the Code at the time the Approved Lists were drawn up.

(ii) Since the names were not in accordance with the Code, they could not have been added to the lists. Also, the change to Rule 24a was revised in the previous session (see Minute 9.4).

**Minute 19. Adjournment.** The Chairman B. J. Tindall adjourned the meeting at 11:15.

**Session 3**

**Minute 20. Call to order.** The chairman B. J. Tindall called the meeting to order at 08:00 on 6 August 2008 in the Lütfi Kirdar, ICEC, Istanbul, Turkey.

**Minute 21. Return to previous issues.** (1) Authorship and date of *Micromonospora sandarakina* (see also Minute 17.2). The name cannot be added to the Approved Lists (see Minute 9.4). However it must be attributed to the original authors. If the new valid publication date is 2004, then a question arises of how to link authorship back to the original authors (Sveshnikova *et al.* 1969). It was agreed unanimously to ask the ICSP to sanction further discussion of this topic after the meeting in order to come to a conclusion and to publish the name in a fashion that allows it to be validly published.

(2) It was agreed that it may be useful to publish an article concerning valid publication relating to standards, verification and quality control that lays out where problems are arising.

**Minute 22. Return to previous Requests/Opinions (continuation of Minute 17).** (1) Opinion 79. Rule 22 of the Bacteriological Code states that classes and subclasses have nomenclatural types. However, some names that appear on the Approved Lists (as well as some other names) are listed without nomenclatural types. At issue in the first part of the discussion was what to do about the names that appear on the Approved Lists without nomenclatural types. The second part of the discussion centred on names introduced by Cavalier-Smith (2002), which also do not have nomenclatural types and cause confusion in general.

(i) It was agreed unanimously that classes and subclasses have types as defined by Rule 22.

(ii) It was agreed unanimously that the classes and subclasses that appear on the Approved Lists without types cannot be considered to be 'not validly published' because they are validly published on the Approved Lists. Some names for which no types are designated (e.g. *Photobacteria, Anoxyphotobacteria*) should be rejected; others can be retained. The JC should designate types for those names that should be retained.

(iii) It was agreed unanimously that all names listed by Cavalier-Smith (2002) should be rejected.

(iv) It was agreed to deal with all names of higher taxa (family and above) that do not have types in one single new opinion so as not to single out any individual author.
(2) Opinion 75. Opinion 75 ruled to reject the genus name Methanothrix and the species name Methanothrix soehngenii Huser et al. 1983 on the grounds that the names contravened Rule 31a of the Code. In addition, the species Methanothrix thermophila was transferred to the genus Methanosaeta as Methanosaeta thermophila (Kamagata et al. 1992) Boone and Kamagata 1998 comb. nov. This opinion was challenged by B. J. Tindall for reasons of misinterpretation of the Code and contradictory assertions in the Opinion.

(i) It was agreed unanimously that the name Methanothrix soehngenii Huser et al. 1983 does not contravene the wording of Rule 31a and is thus validly published.

(ii) It was agreed unanimously that the name Methanothrix thermoacetophila Nozhevnikova and Chudina 1988 does not contravene the wording of Rule 31a and is considered validly published.

(iii) It was agreed unanimously that the names Methanothrix thermophila Kamataga et al. 1992 and Methanothrix thermoacetophila Nozhevnikova and Chudina 1988 refer to the same taxon. The consequence of this ruling is that Methanothrix thermophila is illegitimate, should be rejected and Methanothrix thermoacetophila should be retained in its place.

(4) It was agreed unanimously that the name Methanosaeta Patel and Sprott 1990 and Methanothrix Huser et al. 1983 refer to the same taxon. As a consequence of these decisions, the name Methanosaeta is illegitimate and should be rejected as a source of confusion. It should be replaced with the genus name Methanothrix. The replacement name will be nom. nov. and all species in the genus Methanosaeta should be transferred to the genus Methanothrix.

(5) G. M. Garrity raised the point that this is a question of priority and that Methanosaeta as well as Methanothrix thermophila are later homotypic synonyms of the previously validly published names. Following this point, it was agreed that the wording of the Opinion should be very carefully considered to reflect the fact that these names were rejected on the basis of causing confusion, so as not to set precedence for rejecting all later homotypic synonyms.

Minute 23. Requests for an Opinion Pending. A request by H. Neimark, W. Peters, B. L. Robinson and L. B. Stewart concerning the validity of the name Mycoplasma coccoides.

(1) The authors of the request ask the JC to retain the genus name Mycoplasma in the species Mycoplasma coccoides. It was agreed unanimously that Mycoplasma coccoides is not a validly published name.

(2) As the name Mycoplasma coccoides is not validly published, the JC will not consider the issue of whether it is a legitimate name.

(3) It was agreed unanimously that the JC should not consider the issue whether Mycoplasma should be conserved over Eperythrozoon on the basis that it depends on taxonomic opinion.

(4) It was agreed unanimously that there is no case for retaining the name Mycoplasma over the name Eperythrozoon. This will be published as Opinion 93.

Minute 24. Matters relating to taxonomic subcommittees. No issues were raised by subcommittees that should be addressed by the JC.

Minute 25. Judicial Commission 24th class of commissioners. The 24th class of commissioners will be announced at the ICSP meeting.

Minute 26. Other business. Issues concerning the publication of the Code, what should be included and how it should be published (in print and/or electronically) were raised.

Minute 27. Adjournment. The chairman B. J. Tindall adjourned the meeting at 10:00.

Acknowledgement

We thank Mrs Dorothea Taylor of NamesforLife for transcribing the original minutes of the meetings of the JC.