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**Billing Notes:**

Title: Nyala.

*G 1310*

Uniform  
Title:

Author:

Edition:

Imprint: [Zomba] National Fauna Preservation Society of Mala?wi.

Article: Morris, Brian: Folk classifications

Vol: 6

No.:

Pages: 83-93

Date: 1980

**Dissertation:**

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Patron: :dept: :type: Amith, Jonathan

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2. This article is from a lecture given to the Society of Malawi in March 1980.  
1. Present address: Goldsmiths' College, University of London, SE 14 6NW.

"I have added a list of 'native' names referable to certain species, but would caution any future workers to pay little attention to them. My experience over many years has been that they are almost always unreliable. Having known many years ago that they are almost always unreliable, but made a list of 'native' names referable to certain species,

He wrote:

Rodney Wood! Yet this is what he wrote in one of his articles devoted to wild life in Malawi. I have a high respect to the conservation of mammals - of which he made an important collection. I have a high opinion of naturalists, and did a lot of good work with respect to the conservation of wild life in Malawi. I knew quite well. I met Jim when I was still a myanata and he was in his seventies. He was a good example. It comes from a man I knew quite well. I'll give you an names and classifications of ordinary people. I'll give you an have an unnecessary negativity even derogatory attitude towards the us to have an inferiority complex. On the other hand naturalists biologists or the Latin they espouse, so there's no need for any of nothing esoteric or unorthodox about the activities of systematic desirous - but it is unnecessary. There's a cabbage. This respects towards systematic classifications if he told you it was brassica oleracea var bullata of the family Cruciferae told you it was brassica oleracea var capitata of the family Brassicaceae. You wouldn't be impressed if he told you it was told you it was showed somebody a plant and he or she botanists. I mean, if you showed somebody a plant

Now for many ordinary naturalists there is a wide, almost unimaginable gulf between the classifications of science on the one hand, embodied as these are in Latin nomenclature, and the first and natural classifications of ordinary people. Towards the first we show amazing respect, even reverence. No present of old was treated with as much awe as that accorded to contemporary systematics who amazement respecting, even reverence. Even towards the first told you it was brassica oleracea var capitata of the family Cruciferae told you it was brassica oleracea var bullata of the family Brassicaceae. You wouldn't be impressed if he told you it was showed somebody a plant and he or she botanists. I mean, if you showed somebody a plant

#### Folk Versus Scientific Classifications

that human life as we understand it would not be possible without that human beings are by nature, classifying, animals and to forget that human beings are only taxonomic biologists do. We tend to often seen as something only because I'm biassed to that related to animals and plants, and partly because 'classification' insights into the 'traditional uses', superstitions and 'medicines' specifically on this topic; partly because I'm going to talk to some people that I'm going to talk. It may come as a surprise to some people that I'm going to talk very ordinary people conceptually classify the natural world. I want this evening to talk about 'folk classifications' - the

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#### "FOLK CLASSIFICATIONS"

And he goes on to suggest that the sooner all vernacular terms are forgotten the better (Wood, 1949).

You see, he was a good enough naturalist to realise the need to record common names, but his attitude towards them is essentially a negative one. And he's not alone in this.

Now what I want to try and do this evening is two things. Firstly, I want to suggest to you that the names and classifications of ordinary people are worth something, reiterating what the worthy John Buchanan (1895) wrote about nearly a hundred years ago, when he briefly looked at the semantics of some local plant names. Secondly, and linked to this, I want to suggest to you that there is not an unbridgeable gulf between folk and scientific classifications, and that they are related in rather interesting ways.

#### The Universality of Terms

Let me start first with a criticism that is always levelled at folk classifications, namely that they do not provide standardized or universal terms for animals and plants. This is one of the things that Rodney Wood bewailed when he noted that certain vernacular terms covered more than one scientific species. Given the fact that there is no universal common language, that there is no one-to-one correspondence between folk and scientific taxonomies, and that synonyms are widely used in folk taxonomies, this must be the case. But the criticism is rather overstated. Firstly, synonyms are not "rampant" in folk taxonomies, as many have implied; in fact within a given locality or culture there is very wide agreement regarding plant and animal names. The names of the more common plants and animals are by no means ambiguous or cluttered with synonyms. Take, for example, the names of trees here. Trees like *Uapaca kirkiana* (*Msuku*), *Adansonia digitata* - the Baobab (*Miambe*), *Pseudolachnostylis maprouneifolia* - Kudu berry (*Msolo*) - all widespread - have vernacular terms that are pretty standard, common to both Yao and Chewa languages. Synonyms only become conspicuously evident with trees that are uncommon, like *Canthium gueinzii*, a shrub found in evergreen forests which has two Yao and two Chewa names - and probably only known to a few herbalists. Secondly, scientific classifications themselves are by no means standard. It is interesting to read Charles Jeffrey's useful introduction to 'Biological Nomenclature' (1973). On page 5 he insists that a fundamental principle of nomenclature is that "names must be unambiguous and universal", and so common names are dismissed as unsatisfactory. Yet given the fact that scientific classifications must inevitably change with our increasing knowledge of the natural world and that such classifications attempt to reflect phylogenetic relationships, a few pages later he notes that scientific classifications are subject to "continuous change", and that scientific terms, like common names, are by no means either unambiguous or universal. There is, as he notes, an "inherent conflict" between the stability of nomenclature and the need to have a system of classification that best reflects our present knowledge. That shrub you find on the rocky outcrops of Zomba and Mulanje is still called *Cheyo* here, but at Kew they no longer

call it *Vellozia*. And, (1978) of the new Bir changes and revisions only two decades.

#### The Cultural Importan

Scientific nomen not the classical Lat refined Latin derived dred years ago one of remain ignorant of the study of botany" (John taxonomist, and I'm r to a past world, that the present one. I v and in particular th to this presently - taxonomies. I'm not standard English, my have to approach the

One thing that the belief in an imm is the Chewa term. terms for this - sou connotations of these different, though ne Soul is connected wi ted with vitality and can admire you; if y although their origi meaning of the two t spirit, as it were, direction. And of i Latin origin, soul i munities of Western you will know that f of the aristocracy a why taxonomic biolog

But you'll real English language and cations in our use o words like make, wan words like construct think that you are a use such terms. Ter different meanings w get over, get to, ge leads you on to bigg you, is that the low the others are of La reciting the terms f

Scattered Latin of the Ancients, as you well know, is based on Latin - refined Latin derived from the medieval herbalists. Some two hundred years ago one of these herbalists wrote: "Those who wish to remain ignorant of the Latin language, have no business with the study of botany" (John Berkenhoult). Now if you're not a biological taxonomist, and I'm not, the tendency is to think that Latin belongs to a past world, that it has no relevance at all in understanding the present one. I want to try and indicate to you that it has, and in particular that study is helpful - and I shall come to this presently. In understanding the nature of English folk taxonomy, I'm not a Latin scholar either: my second language was standard English, my first being a Black Country dialect. So I'll have to approach these issues by way of anthropology.

## The Cultural Importance of Latin

call it *Veltzotzia*. And, you only have to read John Alder's review of the new Bird Checklist to realize that have taken place during (1978) of the changes and revisions in nomenclature that have occurred during the last decade.

(if I wanted) indicate those of Latin origin without too much embarrassment!

Where does all this lead? Well, to our understanding of English folk classifications. Take first a typical botanical description. I will give you one, although there will be no prizes for guessing the plant species.

- " Tree: 4-6 m in height, occurring in deciduous woodland
- Bark: Light green, fissured and cracked
- Leaves: Alternate, ovate - elliptic, apex rounded, margin entire, rarely serrate
- Flowers: Small, in axillary clusters or cymes
- Fruit: Spherical with persistent style, indehiscent "

Well, it's a description of *Msolo*, adapted from Palgrave's (1977) book. And you will note that while all the basic terms here - tree, bark, leaf, fruit - are of Teutonic origin, the descriptive terms are all derived and adapted from Latin terms (Stearn, 1966). But note also that the botanic Latin is not pure Latin but is derived from Latin and Greek words that have been modified and refined for scientific purposes. "Serrate" is from *serra*, Latin for "saw"; "pubescent" from *pubes*, meaning pubic hairs. The early botanists virtually created a new language.

I shall return to Latin shortly. But let me first indicate to you just what is the nature of a folk classification system, and then I will try to say something about the way in which English folk taxonomies have developed, and been modified over the centuries.

#### The Nature of Folk Classifications

All folk taxonomic systems are essentially comprised of a large number of primary terms which represent the most commonly designated concepts of the animal and plant world. They stand for groupings of organisms that have a certain "natural" or objective standing in the world. In English we have terms like elephant, gull, blackbird, viper, buttercup, badger, perch, cowslip; in Chicheŵa we have terms like *nyalugwe*, *chambo*, *msuku*, *kanyimbi*, *njiwa*, *nyani*, *chinomba*, *tsabola*. Ethnobiologists refer to these terms as 'generic names'. They are usually single terms, and there are lots of them in every language. Such categories are normally incorporated into a higher-level taxa referred to as a 'life-form' category (Berlin, et al., 1974). In English we have snake, beast, fowl, (you'll note I'm using biblical terms), tree, fish, bush and the like, while in Chicheŵa we have *nyama*, *mbalame*, *mtengo*, *njoka*, *bowa*, *nsomba*. These terms - or those rough equivalents - are found in many different languages. Besides these two primary levels there is a third important taxonomic rank, namely, that often the generic categories are subdivided into two or more

specific categories. three or four doves and sweet chestnuts, mice (*Grammomys*) sonto w trees; *mpoloni* and *mpo arborescens* - both Umb chipeta (*Diplorhynchus*) cal examples. In folk genera that are subdiv Chewe is no exception

Now there are a about such classifica taxa which are equiva these terms are absent which we have details ceptualize the distinct organisms, but these to note, however, that reflect this distinct munthu class *a/fisi*, a most members of the m of plants known to the referred to by that s nsopa *mlombwa* (taking t rules are complex and differential treatmen But importantly, ther lent to these.

Secondly, folk t essentially of three are for instance few life-form terms, and any of the main life-of one Mayan-speaking pologist (Berlin, et a forms which can be br and 'vines'. Out of 75 per cent were inco categories, leaving a folk classifications equivalent to *chirombo* these discrepant gene fications is therefor

Thirdly, many o mous, their meaning v a generic is a single or animals, and to a ges the term for a li Amongst the Shoshoni, 'bird'. And there is its original meaning

its original meaning not only stood for trees universally but for a bird'. And there is some evidence that the English word 'tree' in amongst the term Shoshoni, for example, is often also a generic category for a life-form categories. In some American languages the term for a life-form category is often also a generic term or animals, and to a specific species. In some American Indian languages a generic is a single term that applies both to a group of plants or mice, three genera to context. Quite generally mous, there are many variations according to context. Quite generally tritally, many of the terms in folk classifications are polysemous, those having two or more levels of reference.

Folkifications is therefore not a systematic one. These discourses are not a systematic hierarchy of folk classification to chitombo (or chitoko in Yao) that incorporate some of the taxonomic hierarchy of folk classifications there is often a residual category - somewhat equivalent to 'other' in English. In many categories, leaving about 100 generic forms unaffected. In these categories, were incorporated into one or other of these four basic categories, 75 per cent were incorporated into one or other basic forms which can be broadly translated as 'trees', 'herbs', 'grasses', and 'vines'. Out of a total of 471 generic categories approximately 15 per cent were incorporated as 'trees', 'herbs', 'grasses', pologists (Berlin, et al, 1974) found that they had four basic forms of one Mayan-speaking community in Mexico, for example, one antibiotic, any of the main life-forms. In a study of the plant classifications for instance few intermediate categories between generic and essentiality of three levels, but it is also a discursive one. There are for instance few intermediate categories between generic and life-form terms, and many generic categories are attributed to

Secondly, folk taxonomists have not only a shallow hierarchy, but importantly of the main life-form terms, but it is also a discursive one. There are for instance few intermediate categories between generic and life-form terms, and many generic categories are attributed to

Now there are a number of interesting features to be noted about such classifications. Firstly, it is very rare to find any taxa which are absent from almost all folk classifications on which we have details. This is not to say that people do not construct these classifications, but these are not named. It is interesting to note, however, that in Chichewa the two main types of living organisms, but these are not named categories. It is interesting to reflect that this distinction between the two main types of living

most members of the meningo - which includes the majority

of plants known to the Chichewa - belong to the same

meninga class after, a language, amends (or the plural is the same)

Chichewa is no exception here.

genera that are subdivided in this manner are relatively few - and general taxonomic systems generally the number of

examples. In folk taxonomic systems generally the number of

categories (Dipterophyllums concolor) and Holarrhenia pubescens) being typi-

cal examples - both Umbelliferae shrubs (and thomozzi and Heteromorpha

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mice (Gymnospermae) onto wamna and sonzo wamng'ono, and several

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specific kind of habitat and the generic "oak".

Fourthly, and as one would expect, many classes of organisms of interest to the biologists are given very scant treatment in folk taxonomies. The English generics toadstool, fern, worm, beetle cover a multitude of species known to present biologists, and their Chicheŵa equivalents are the same, although it is worth noting that the Chicheŵa have a detailed classification of edible fungi and rodents.

Fifthly, in case one should get the idea that folk taxonomies are all ad hoc and highly unsystematic, I should note that the classificatory proclivities of pre-industrial people typically do not end with the ordering of a specific domain, like that of animals or plants. People classify all aspects of life: there is a colour classification; people are divided up into various social categories; there is a recognition of different kinds of planets or minerals; space is divided up and given values; individuals are classified according to their temperament, and time, too, has its categories. To people like us Europeans all these aspects of human experience are distinct and unrelated. Given industrial production, and the high degree of economic and intellectual specialization that modern society involves we do not look upon the world as a 'totality' of interrelated things. For us, there are no real connections between colours, or people's temperaments and animals and plants, though we may link them descriptively or metaphorically. But with the culture of more pre-industrial people classification does not stop with the ordering of specific domains like colour or plants; there is often a more complex and systematized mode of classification that unites into a symbolic totality almost all aspects of human experience. As an example I will mention the symbolic classifications of one American Indian community, the Navaho, who have a complex symbolic classification organized around spatial categories (Levi Strauss, 1966). When we talk about totemism, or geomancy or astrology, we are simply (and somewhat misleadingly) looking at classificatory symbolism from one particular aspect. Anyone who looks at Culpeper's Herbal will see the influence of the medieval conceptions of the world on this study. What's important about this is that it indicates that many pre-industrial people do not see our opposition between man and nature; what happens in the social world affects 'nature', and vice versa. Thus there is often an ecological perspective in the culture of pre-literate people even though mediated through religious symbolism.

#### Cheŵa Classification of Plants

But let me return to the classification of plants and the Cheŵa. As I said, there's no term for 'plant' here, but the plant kingdom itself is ordered through four basic categories:

*Mtengo* which is a general category for trees and woody plants.

*Chitsamba* which can be roughly translated as 'shrubs' - although often associated with regenerating *Brachystegia* type trees.

*Moudzu*: grass-like

*Bowa*: edible fung

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#### Changes in English Fo

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not become a general category until about 1600. Its original meaning was "host", "apparitions", and "objects of terror". The term "bird" did gory) and "bug" (the original meaning of which had connotations with ghosts from the Teutonic verb "to creep" - and was also a wide category). Finally they were very similar to contemporary Chinese, bats and butterflies, i.e., it meant "flying things" (a term that covered birds, animals). Categories were "beast", "owl" (a term that covered birds, bats and butterflies), "snake" (which finally they were very similar to the Latin issue - you will see that originally they were very similar to the English folk classifications - and we're returning now to the Latin issue - now to the English folk classifications -

shrub - although qua type trees.

and woody plants.

plants and the Cheva.

### Changes in English Folk Classification

The second example of this utilitarian emphasis in Chinese classification is the term *Bow* - which also has a double meaning. In some contexts it could be used as a generic term for the larger fungi, but *Bow* but a "useless thing". This is an important point because another word like an indestructible *Rueaula* or *Amarita* as "Sticks of ironwood", it's not a simple but a "useless thing". The first means "edible fungi", and a woman will especially despise an indestructible *Rueaula* or *Amarita* as "sticks of ironwood", it's not a complex category which can be roughly glossed as "useless living things". The latter term, as such, covers a variety of organisms - another complex category which can be excluded from it, and described as "chitinous fungi" - while still being some of the larger mammals - hyena, leopard for example - and in specific contexts some of the smaller mammals and large reptiles, and as a term for meat. It is a highly complex term, and in specific contexts both as a category to cover all mammals and large reptiles, I give two examples. The first is the well-known term *Worm*, which is as Bruce Hargreaves (1976) suggests in one of his articles, and again is *Bow* as a name for plants, for which the plant provides a remedy. *Bow* used to cover a variety of plants associated with a complicated name of the same name, for which the plant provides a remedy.

*Manna* *uapphepo*: a term focused on *Glyphaetemma* plants, but one of relatives, referred to by the same name. *Whose leaves are utilized in the preparation of a specific kind but which is used generally to cover all plants* but which denotes the cutivated habitats of relatives; a term that specifies the cutivated habitats

they mainly have a group of plant genera are of interest because used to designate a relatively few in Chinese, but the terms which are categories are relatively unaffiliated, individualized, intermediate spicuous flowers remain essentially unaffiliated, although herbs which on the role of a general plant category, although herbs which categories, they are a unearthy kind rather than a purely taxonomic significance, Two examples:

*Mudau*: grass-like plants, and including often small lillies.

*Bow*: edible fungi.

*Mudau*: grass-like plants, and including often small lillies.

ing was a 'young bird' or nestling, particularly the young eagles; but with time it replaced "fowl" and both took on different meanings. The basic "plant" categories were "tree", "bush" and "herb". There was no general category for "fungi", only the terms "mushroom" and "toadstool", applying to the edible and inedible varieties respectively. All these terms were essentially of Teutonic tribal origin.

Significantly there were no terms in the early period to signify the two main groups of organisms; both the terms "animal" and "plant" are late-comers to the English language - and both, of course, derived from Latin. The term "animal" comes from "anima" meaning "breath" or "life essence", and did not become evident in English till around 1600. At that time a writer had to point out to ordinary folk the distinction between animal and beast. He wrote (1594):

"Many men by reason of ignorance of the Latin tongue think that an animal is a beast, whereas it signifieth a living thing."

"Plant" comes essentially from the Latin term "planta", to sprout, and again did not become widely used in English until the 16th century when various herbalists like Turner began to use it (*plantes*) as a general category to cover herbs, shrubs and trees. Some general categories of the earlier period, like *gomme* (used by Chaucer as a term equivalent to herb and tree) we know little about; it survives today only in the word "gum", but it is probable that it was a term of the same taxonomic status as the Chicheŵa name *Mpira* (which applies to many latex-producing plants).

After 1600 many other taxonomic concepts derived from Latin entered into English folk classifications - "vegetable", "quadruped", "fungi", "reptile" (like the Teutonic word snake, this was derived from the verb "to creep"). The term "quadruped" (four-footed) had an interesting history. For a while it replaced "beast" as a life-form category in English - and there were several scientific texts entitled the "History of the Quadrupeds" - but when it became evident that the distinction between mammals and reptiles and amphibians was important, it was displaced by the term "mammal". This term, derived from the Latin *mammae* meaning "breasts" did not become a part of the common language until well into the 19th century.

Now in all these changing developments in English folk classifications there are three kinds of processes going on which are important to distinguish. The first I have already tried to indicate, namely, the important influence that Latin has had on English culture generally and implicitly on folk classifications. The second is related to a general theory put forward by the American anthropologist Brent Berlin (Berlin, et al, 1972), that accompanying the more general development in the social and technical complexity of a society there has been an elaboration and growth of folk classifications. He has applied this theory both to the development of colour categories and to ethnobotanical nomenclature. With regard to the latter, his theory is briefly this. That in early human communities generic terms had primacy, and although one human community,

the Tasmanians, appear in most small-scale (earlier) are developed intermediate categories and the g covert), and specific various taxa. He sees cultivation of crops classification, terms ries.

And thirdly there influence of scientific with the writing *Species Plantarum* (1753) plant nomenclature. usually in connexion system, the giving of the generics of folk of a more fundamental plants that emerged the work of herbalists. The major change was with increasing knowledge trying to do morphology of plants use, but the structure called his own class his explicit discuss and he classified plant a particular plant pre refined the concept old as folk science there are two kinds *Mpoloni wamuna*, I doubt generic concept or use break, then, as Brent classifications. But focus on the flowering herbalists as the Linnaeus wrought a well to remember that Linnaeus in compiling of some 7300 species the ancient Greeks and Dioscurides and Theophrastus' names to real has relied on folk names of plants, while *Brassica* are generic. Of the remainder a s

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one compares the perspectives of the two contemporary experts or specialists in the plant field - the botanist and the person who is usually the most knowledgeable about folk classifications - the Ng'anga or diviner-herbalist. If I should show some roots of *Dicoma kirkii* (*palibe kanthu*) or *Cyphostemma zambense* (*mwana wa mphepo*) to a botanist and asked for an identification, I doubt if there would be one in a hundred who could tell me what it is. Yet I wouldn't trust any Ng'anga who couldn't give me a positive response immediately. But you can imagine what they would say at Kew if you sent them along a pile of roots and asked for identifications! Conversely, if you showed the flowers of these plants to a botanist you ought to get an identification - if he (or she) is a botanist worth his salt - but you would stump most Sing'angas. Yet a woman Ng'anga I know to whom I showed a specimen said to me: "Bring me more leaves and the root and I'll tell you what it is!"

Finally, what is the relationship between scientific and folk classifications with regard to their content? Well, inspite of Rodney Wood's pleading, there is a surprisingly high degree of correspondence between the two, but by no means the one-to-one correspondence as implied by some plant dictionaries. In a recent analysis (1979) I made of the way the Navaho Indians classify insects I found a very close relationship between their classification and that of entomologists. And Brent Berlin and his associates, in their study of a Mayan community in Mexico, found that there was in fact a one-to-one correspondence between folk generics and biological species in about 61 per cent of the generic plant taxa examined by them.

So I trust that what I have had to say this evening has convinced you that there is not a "great divide" between folk and scientific classifications, and that folk taxonomies and names have an intrinsic interest in their own right.

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