NOMENCLATURE PROBLEMS

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I would make a few points on behalf of the IAU Comm.5 (Documentation and Astronomical Data) Working Group on Designations.

1. ABBREVIATIONS

. Always try to be clear. Clearly identified objects can be entered in SIMBAD Data Base immediately.
. Don't use 1 or 2 letters designations for newly discovered objects.
. Use Brey rather than B or Br for Breysacher.
. Use MGWR, not MG, for Morgan and Good new WR stars in the LMC (MG is Mendoza and Gomez, 1973, P.A.S.P. 85, 439, red stars).
. You can always obtain an advice by e-mail LORTET@FRMEU51 or BORDE@FRIAP51 for SIMBAD.

2. SPECTRAL PECULIARITIES OF WR STARS

2.1 WN A and B

This is a distinction related to the width not the strength of the emission lines (B stands for broad)

λ HeII 4686	Hiltner and Schild R.E., 1966, Ap.J. 143, 770		A		B
λNIV 4059	Walborn 1974, Ap.J. 189, 269	A	A(B)	(A)B	B

2.2 Slash stars (Of/WNE and Of/WNL)

Of/WNE
Sk-67 22 Walborn, 1982 ; see Sect.3.
Sk-71 34 Conti and Garmany, 1983 ; see Sect.3.
Five Melnick stars (Melnick 30, 35, 39, 42, 51), Walborn 1986, Proceed. IAU Symp. 116, 185.

Of/WNL
Bohannan and Walborn, 1989, P.A.S.P. 101, 520.
Ten stars, out of which only three at present have a Breysacher number, namely :
Brey 18 = R 84 = Sk-69 79 = HD 269227 = BE 543
Brey 64 = BE 381
Brey 91 = Sk-69 249C = HD 269927C.

K. A. van der Hucht and B. Hidayat (eds.),
Wolf-Rayet Stars and Interrelations with Other Massive Stars in Galaxies, 513–514.

3. NEW WOLF-RAYET STARS IN THE LMC

Since Breysacher's 1981 Catalogue, apart from the slash stars described in Sect.2, 15 new Wolf-Rayet stars have been discovered. They are listed in Table 1, and have been given a Brey number, in agreement with J. Breysacher. The stars are ordered by right ascension, e.g. the star 3a is inserted between stars 3 and 4 of the original catalogue.
Table 1 will be complemented later with the five Melnick stars in 30 Dor (crowded field, accurate coordinates needed) and the 7 remaining Of/WNL, as quoted in Sect.2.

TABLE 1. New Wolf-Rayet stars in the LMC (since Breysacher, 1981)

Brey	Other Names	Sp Type	Ref	Neb.	Assoc.
3a	-	WC9	4	N 82	-
10a	Sk-67 22	O3 If*/WN6-A	9	-	-
16a	MGWR 1	WC5+O	5	N 105	LH 31
19a	MGWR 8, BE 456	WN3	7	-	-
40a	Sk-71 34	O4 f/WN3	2	near N 206	-
44a	AB-18	WN8-9	1	-	-
63a	MGWR 3	WN3	5	-	LH 89
65a	MGWR 2	WN5	3	N 59	LH 88
		WN4	5		
65b	TSWR 1, HD 269828C	WN3+0B	8	N 157C	LH 90
65c	TSWR 2, HD 269828E	O4 If/WN6	8	N 157C	LH 90
70a	MGWR 4	WC:	5	N 157B	near LH 99
		WN3-4	6		
74a	TSWR 3	O3 If/WN6	8	N 157B	LH 99
90a	MGWR 5	WC4	6	N 157	near LH 100
93a	MGWR 7	WN3-4	5	N 160D	LH 103
95a	MGWR 6	WC5+06	5	N 158	LH 104

References for Table 1
1 Azzopardi M., Breysacher J., 1985, Astron. Astrophys. 149, 213.
2 Conti P.S., Garmany C.D., 1983, P.A.S.P. 95, 411.
3 Cowley A.P., Crampton D., Hutchings J.B., Thompson I.B., 1984, P.A.S.P. 96, 968.
4 Heydari-Malayeri M., Melnick J., 1990, these Proceedings.
5 Morgan D.H., Good A.R., 1985, M.N.R.A.S. 216, 459.
6 Morgan D.H., Good A.R., 1987, M.N.R.A.S. 224, 435.
7 Morgan D.H., Good A.R., 1990, M.N.R.A.S. 243, 459.
8 Testor G., Schild H., 1990, Astron. Astrophys., in press.
9 Walborn N., 1982, Astron. J. 77, 312

DISCUSSION

Conti: I am glad somebody is keeping-up with this, but I have problems with this use of WNA and WNB for narrow and broad lined subtypes. The measured line widths form a continuum of widths. If one is going to use A and B to isolate the extremes, well, alright, but let us not use any "intermediate" A(B) or B(A) or suchlike.