(DOUBLE STARS)

## INFORMATION CIRCULAR No. 142 (OCTOBER 2000)

| NEW ORBITS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { ADS } \\ \alpha 2000 \delta \end{gathered}$ | Name <br> n | $\mathbf{P}$ | $T$ | $\begin{aligned} & \mathbf{e} \\ & \omega \end{aligned}$ | $\Omega(2000)$ <br> Last ob. | $\begin{aligned} & 2000 \\ & 2001 \end{aligned}$ | Author |
| 00090-5400 | $\begin{gathered} \text { HDO } 181 \\ 1^{\circ} 6290 \end{gathered}$ | $\begin{gathered} 221^{y} 00 \\ 0^{\prime \prime} 420 \end{gathered}$ | $\begin{gathered} 1978.71 \\ 1.54^{\circ} 1 \end{gathered}$ | $\begin{gathered} 0.406 \\ 25^{\circ} 3 \end{gathered}$ | $\begin{array}{r} 161^{\circ} 6 \\ 1999.77 \end{array}$ | $\begin{aligned} & 59^{\circ} 70^{\prime \prime} 29 \\ & 56.90 .29 \end{aligned}$ | $\begin{gathered} \text { ALZNER } \\ \& ~ A R G Y L E \end{gathered}$ |
| 819 | A 1902 | 92.67 | 1964.91 | 0.842 | 121.1 | 198.50 .340 | DOCOBO |
| 00593-0040 | 3.8848 | 0.346 | 56.9 | 270.2 | 1996.696 | 199.70 .341 | \& LING |
| 1105 | STF 115 AB | 216.82 | 1984.60 | 0.931 | 138.7 | 172.70 .175 | DOCOBO |
| $01233+5808$ | 1.6604 | 0.863 | 98.3 | 128.5 | 1999.729 | 170.70 .191 | \& LING |
| 1630 | STT 38 BC | 63.67 | 2015.50 | 0.927 | 109.6 | 104.80 .465 | DOCOBO |
| 02039+4220 | 5.6542 | 0.302 | 109.8 | 183.4 | 1999.726 | 104.40 .450 | \& LING |
| 3174 | STF 535 | 1128.00 | 2046.00 | 0.495 | 114.0 | 279.71 .132 | HARTKOPF |
| $04233+1123$ | 0.3191 | 2.040 | 145.5 | 243.6 | 1999.8315 | 279.01 .126 | \& MASON |
| 3614 | HU 445 | 303.69 | 1956.51 | 0.376 | 73.2 | 121.10 .420 | SCARDIA |
| 05017+2050 | 1.1854 | 0.592 | 45.0 | 323.0 | 2000.017 | 122.60 .421 |  |
| 4929 | BU 895 | 103.69 | 2009.30 | 0.050 | 140.6 | 148.60 .252 | HARTKOPF |
| $06200+2826$ | 3.4719 | 0.282 | 70.1 | 58.0 | 1999.8319 | 150.20 .245 | \& MASON |
|  | MCA 27 | 38.90 | 1976.73 | 0.557 | 113.5 | 295.70 .240 | HARTKOPF |
| 06384+2859 | 9.2545 | 0.159 | 119.5 | 343.3 | 1999.8319 | 294.00 .236 | \& MASON |
| 5956 | A 2123 | 77.31 | 1981.46 | 0.944 | 137.9 | 345.10 .402 | HARTKOPF |
| 07171-1202 | 4.6566 | 0.684 | 79.7 | 80.2 | 1999.1603 | 345.90 .402 | \& MASON |
| 6825 | A 550 | 42.00 | 1952.70 | 0.026 | 170.4 | 127.60 .072 | HARTKOPF |
| 08277-0425 | 8.5714 | 0.170 | 108.0 | 24.0 | 1999.8666 | 109.00 .058 | \& MASON |
|  | I 10 | 142.00 | 2000.80 | 0.470 | 163.6 | 343.21 .06 | ALZNER |
| 08447-5443 | 2.5352 | 1.990 | 105.2 | 188.0 | 1999.782 | 341.11 .04 | \& ARGYLE |


| $\begin{gathered} \text { ADS } \\ \alpha 2000 \delta \end{gathered}$ | Name <br> n | $\begin{aligned} & P \\ & \mathrm{a} \end{aligned}$ | $\begin{gathered} \mathrm{T} \\ \mathrm{i} \end{gathered}$ | $\begin{gathered} \mathbf{e} \\ \omega \end{gathered}$ | $\Omega(2000)$ <br> Last ob. | $\begin{aligned} & 2000 \\ & 2001 \end{aligned}$ | Author |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 7012 | A 2552 | 82.38 | 1968.93 | 0.232 | 34.7 | 64.80 .240 | HARTKOPF |
| $08487+0057$ | 4.3700 | 0.239 | 128.4 | 166.0 | 1996.8665 | 62.30 .247 | \& MASON |
| 7039 | A 2473 | 116.70 | 2015.30 | 0.890 | 108.5 | 66.90 .277 | HARTKOPF |
| 08507+1800 | 3.0848 | 0.476 | 68.0 | 89.1 | 1999.1578 | 68.50 .273 | \& MASON |
| 9089 | A 1097 AB | 224.70 | 1920.69 | 0.105 | 60.1 | 241.10 .437 | SCARDIA |
| $14020+5713$ | 1.6021 | 0.409 | 49.7 | 45.7 | 1997.330 | 242.00 .438 |  |
|  | COU 490 | 50.79 | 2013.10 | 0.672 | 104.1 | 339.80 .183 | MANTE |
| $16450+2928$ | 7.0876 | 0.169 | 136.1 | 269.9 | 1995.442 | 336.50 .179 |  |
| 10276 | A 1143 | 88.20 | 1949.80 | 0.632 | 101.7 | 244.30 .404 | HARTKOPF |
| $16566+5711$ | 4.0816 | 0.290 | 136.4 | 39.2 | 1997.4004 | 243.20 .399 | \& MASON |
| 10341 | BU 823 | 532.00 | 1954.70 | 0.417 | 66.2 | 152.20 .919 | HARTKOPF |
| $17066+0039$ | 0.6767 | 1.600 | 37.6 | 16.5 | 1998.5940 | 153.60 .925 | \& MASON |
| 11080 | STT 524 | 686.00 | 1946.30 | 0.672 | 24.2 | 213.70 .393 | HARTKOPF |
| $18075+1940$ | 0.5247 | 0.584 | 129.7 | 57.8 | 1997.65 | 213.20 .399 | \& MASON |
| 11530 | HO 87 | 118.57 | 1972.73 | 0.620 | 21.8 | 71.20 .348 | HARTKOPF |
| $18386+1632$ | 3.0362 | 0.310 | 34.2 | 269.0 | 1997.682 | 72.80 .352 | \& MASON |
|  | KUI 103 | 29.50 | 2007.66 | 0.742 | 132.1 | 104.20 .854 | MANTE |
| $21000+4004$ | 12.2034 | 0.589 | 0.1 | 130.5 | 1995.850 | 108.40 .798 |  |
|  | KUI 108 | 26.49 | 1974.72 | 0.333 | 12.3 | 223.80 .099 | HARTKOPF |
| $21424+4105$ | 13.5900 | 0.153 | 142.4 | 176.1 | 1997.5232 | 200.20 .102 | \& MASON |
| 16819 | HU 298 | 30.73 | 1987.47 | 0.263 | 126.8 | 339.30 .203 | HARTKOPF |
| $23322+0705$ | 11.7149 | 0.173 | 31.0 | 57.0 | 1997.8293 | 346.30 .202 | \& MASON |

# Report of IAU Commission 26 Business Meeting Manchester, England, 2000 August 14 

| President: | C. Scarfe (Canada) |
| :--- | :--- |
| Vice-President: | W. Hartkopf (U.S.A.) |
| Organizing Committee: | T. Armstrong (U.S.A.) - continuing |
|  | F. Fekel (U.S.A.) - new |
|  | P. Lampens (Belgium) - new |
|  | J. Ling (Spain) - new |
|  | R. Mathieu (U.S.A.) - continuing |
|  | M. Valtonen (Finland) - continuing |
| Past-president: | H. Zinnecker (Germany) |

Despite the fact that more than half the commission's members voted in the recent election of vice-president Hartkopf and the new OC members listed above, and despite the significance of several agenda items, the meeting was poorly attended, with only nine members present, the same as at the previous meeting, in Kyoto. This report is based on notes taken by W. Hartkopf and the author, the latter of whom takes full responsibility for any inaccuracy.

The deaths of three members, C. Worley, P. Muller and C. Jaschek were acknowledged with a moment of silence. L. Loden's retirement and resignation from the commission was noted.

The commission has added twelve new members, as follows.

$$
\begin{array}{ll}
\text { W. Chen (Taiwan) } & \text { B. Reipurth (U.S.A.) } \\
\text { C. Clarke (U.K.) } & \text { R. Sagar (India) } \\
\text { A. Ghez (U.S.A.) } & \text { M. Simon (U.S.A. } \\
\text { P. Kroupa (Germany) } & \text { C. Terquem (France) } \\
\text { O. Malkov (Russia) } & \text { A. Tarasov (Ukraine) } \\
\text { B. Mason (U.S.A.) } & \text { L. Vaz (Brazil) }
\end{array}
$$

(Mason has been a consultant for the past three years, but has now joined the I.A.U. and becomes a full member of the commission.) Some discussion followed about how one might connect amateur double-star experts with the commission - the names of A. Alzner (Germany) and R. Tanguay (U.S.A.) were mentioned specifically - but no conclusion was reached. (It appears that I.A.U. rules prohibit their appointment as consultants.)

Zinnecker presented and briefly discussed the triennial report for the Transactions. He also reported on Symposium 200, the highly successful meeting in Potsdam on Young Binary Stars, for which our commission was the primary sponsor. We also supported Colloquium 170, on Precise Stellar Radial Velocities, held in Victoria in 1998, and a Symposium on Extragalactic Star Clusters, to be held next year in Chile. Finally, we were among the supporting commissions for two Joint Discussions at this year's General

Assembly, JD 5 on Mixing and Diffusion in Stars and JD 13 on Hipparcos and the Luminosity Calibration of the Nearer Stars, as well as a multi-commission meeting on the nomenclature of companions to stars.

Hartkopf reported briefly on the commission's website, which has been moved from Atlanta to Washington. He encouraged members to visit it and welcomed suggestions for matters to be included on the site.

Zinnecker presented a report from J. Docobo on the Information Circulars. It was felt that they should be linked to ADS or Simbad, and that future distribution should be done electronically as much as possible to reduce costs. The possibility of including spectroscopic orbits was also raised.

Scarfe reported on the multi-commission meeting on nomenclature. With the advent of planet discoveries, a further level of complexity has been added to that already engendered by the discoveries of binaries by observations at wavelengths other than optical. The potential discovery of many more from space missions lends urgency to the task of finding a nomenclature scheme that encompasses those new dicoveries and techniques. In the end it was resolved to let the WDS group tackle the problem over the next three years, with the support of our commission and others with a stake in the outcome.

Mason reported on the current status of the WDS, including new data sources to be included, and Hartkopf discussed the new orbit catalog, which is now nearly complete. It was suggested that a list of calibration objects be posted on the web, and Hartkopf agreed to post a list of "Grade 1" objects with expanded ephemerides. An email message from Docobo stated that his group is also preparing an orbit catalog.

Possible future meetings were discussed. Topics included a Herschel bicentenary, multiple stars, complememtary techniques (a sequel to the Atlanta Colloquium), interaction of binaries with their environments, binaries as distance indicators, and mass determination at the bottom of the main sequence. Possible sites included Mexico, Russia, the United States and the next General Assembly in Australia. Members wishing to comment on these ideas, or add their own, are invited to contact Scarfe at scarfe@uvic.ca or by mail.

A very brief discussion of new instrument developments ensued. We really needed more time to discuss the variety of new instruments, both ground-based and in space, which should lead to rapid growth of double star astronomy in the next few years. An extra session for such a discussion is being considered for the next General Assembly, since several new instruments will be in operation by then.

Group photos were then taken of all business meeting participants, and the meeting adjourned.

Colin Scarfe
President Commission 26

It is with great regret that I have to inform you of the death, in Washington, at the age of 93, of Kaj Aa. Strand, who served as president of our commission from 1964 to 1967. He was born in Denmark in 1907, and emigrated to the United States in 1938. After serving in World War II, he spent several years at Yerkes Observatory and Nothwestern University, before joining the U.S. Naval Observatory in 1958. His tenure as Scientific Director there from 1963 until his retirement in 1977 saw the observatory flourish in all areas of astrometry, thanks to the superb astrometric telescope in Flagstaff for whose design and construction he was primarily responsible, and which now justly bears his name. I have written to his widow to express sympathy on behalf of the commission. A full obituary has been submitted by his colleague Steven Dick to the Washington Post.

Colin Scarfe<br>President Commission 26

## ANNOUNCEMENT

The database SIDONIe (Site Informatique des etoiles DOubles de Nice) is now available on the Web at the adress http://sidonie.obs-nice.fr SIDONIe recovers all the measurements of doubles stars discovered by Paul Couteau and Paul Muller as well as measurements made on visual couples north of -10 declination with separations less than 1 arcsecond or which exibit obvious orbital motion. The data base was conceived to allows research on a specific objet (measurements, orbits, references) or statical research to help the preparation of an observing program. This data base will be updated by contribution of new data coming from published observations and orbits.

> D. Bonneau

Scientific manager of Centre des Etoiles Doubles.
Observatoire de la Côte d'Azur.

## ANNOUNCEMENT FROM THE IC EDITORS

Following the suggestion of the current IAU Commission 26 President, Dr. Colin Scarfe, beginning with No. 143 (February, 2001) the Information Circular will normally be delivered only by e-mail. To those institutions and people who would like to receive a hard copy, it will be sent only upon their request to the Editors.

The deadline for contributions to Information Circular No. 143 is:
february 15th 2001
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