IAU Commission 26, 42 & G1

Double and Multiple Stars, Close Binary Stars & Binary and Multiple Star Systems Business Meeting



Welcome!

Note: Please sign sheet for our official report to the IAU! (on this, please indicate Commission(s) Membership)

- Departed double star astronomers
- Report from Commission Presidents
- Commission websites
- Commission 42 Report
- Commission G1 Report
- Science Session



Departed Visual Double Star Astronomers





Jean Dommanget (1924-2014)

C26 President 1970-3 C26 VP 1967-70 C26 Secretary 1964-7, 1979-82 C26 OC 1964-7, 1973-6, 1982-8

Worked on site selection for ESO, investigated astrometry and dynamics of visual double stars, compiled CCDM (a major contributor to the HIC) from the 1976.5 version of the IDS





Examined 180,000 stars for duplicity, nearly 28,000 double star measurements, more than 2700 new pairs, more than 80 orbits of pairs

Paul Couteau (1923-2014)

C26 President 1967-70 C26 VP 1964-7 C26 OC 1970-6, 1985-91

Editor, C26 Circular 1983-93





Olivier Chesneau (1972-2014)

Michelson Prize (C54) awarded 2012 for major contributions in stellar astrophysics with LBI

Pioneering work on (among other things) Eta Carinae, HD 87643, etc., using VLTI/MIDI, VLTI/AMBER, CHARA/VEGA



Alexei Kiselev (1922-2013)



C26 OC 1985-91





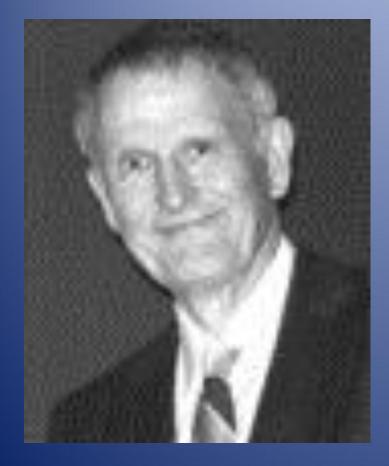




Chris Morbey (1942-2012)

Commission 26 member Orbits in collaboration with Fletcher, Batten and others. Expert designer of instruments working for DAO and on FUSE.





J. Murray Fletcher (1940-2012)

Commission 26 member Orbits in collaboration with Morbey, Batten, Irwin and others. AO work with Walker on Procyon AB. Expert designer of instruments working for DAO and on FUSE.



Commission 26 Retiring Officers

- President: Brian Mason
- Vice President: Yuri Balega
- Organizing Committee
 - Frédéric Arenou
 - Vakhtang S. Tamazian
 - Theo ten Brummelaar
 - Bo Reipurth

Jose-Angel Docobo Marco Scardia Patricia Lampens Andrei Tokovinin



Yuri Balega



- Speckle Observer Director, SAO

- C26 OC 1991-1997
- C26 OC 2006-2012
- C26 VP 2012-2015
- C26 President, 2015-2018





Commission Report

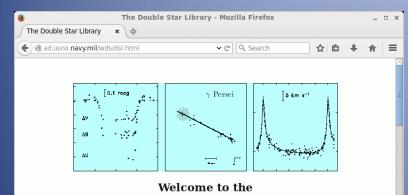
Legacy report this triennium. 20 Page Limit per Commission. Splinter Meeting included.

Historically due before GA. Due to re-organization, deadline slips. My Deadline to IAU: 15 October. Your deadline to me: 30 September.

Expect an email from me by 31 August.



Commission 26 Webpage



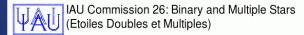
Double Star Library

Recent News & Updates:

• 2015 March: link to latest Commission 26 Double Star Circular added

Jump to:

Purpose of the Library | IAU Commission 26 | Observing | Meetings | Bibliography | Catalogs | Links | Feedback



Commission Membership and Officers
o Previous Commission 26 officers

Commission Mission Statement, Reports, etc.
<u>Commission 26 mission statement</u>

http://ad.usno.navy.mil/wds/dsl.html

It is not anticipated that this will go away in the near term but will serve as a repository of historical Commission 26 information.



Commission G1 Webpage



numerical calculations, and database maintenance. This is an extension of the science that was previously covered by Commission 26 (Double and Multiple

Stars) and Commission 42 (Close Binary Stars).

http://ad.usno.navy.mil/wds/bsl/

Commission 42 webpage format adopted.

Hosted at same institution as C26 webpage.

Includes information from Commission 26 webpage plus that provided by Commission 42.



Commission Website

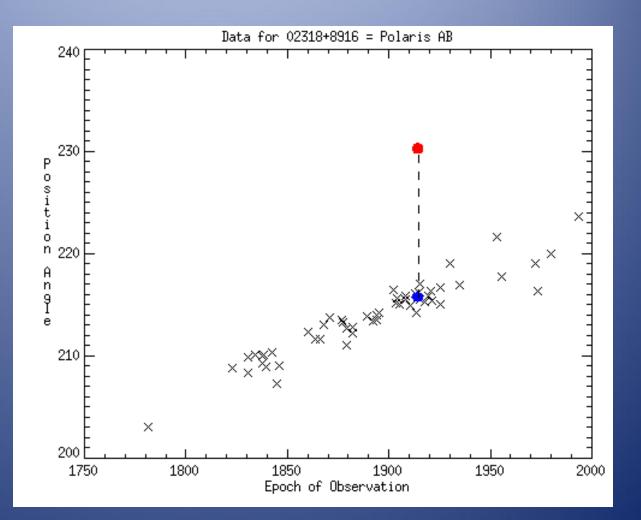
http://ad.usno.navy.mil/wds/bsl/

- Mission Statement
- Terms of Reference
- Membership Lists
- Commission Reports
- Working Groups
- Associate Members
- Publications
- Conferences of Interest
- Catalogs, Databases, Codes
- What else should we have?



Continuing Resolution Work

Publish data as is on observation date or precess to a common epoch?





Science Session

•	1430-1445	History of Commission 42 – Trimble (15min)
•	1445-1505	The Final Kepler EB Catalog – Prša (20min)
•	1505-1515	The Visual Double Star Catalogs – Mason (15min)
•	1515-1530	Coordinate System Issues in Binary Star Computations – Kaplan (15min)
•	1600-1620	Direct Distance Estimation applied to Eclipsing Binaries in Star Clusters: Case Study of DS And in NGC 752 – Milone (20min)
•	1620-1635	θ^1 Ori B: a quintuple (sextuple?) system less than 30,000 years old – Allen (15min)
•	1635-1650	Two bright eclipsing binaries in the Orion Trapezium (BM and V1016 Ori) – Costero (15min)
•	1650-1710	Untitled Spectroscopic Topic – Soderblom (20min)
•	1710-1725	The CHARA Array, Interferometry and/or Binary Stars – ten Brummelaar (15min)
•	1725-1755	SB ₉ to Gaia – Pourbaix (30min)
•	1755-1810	Double Star work being done with the DCT, the NPOI and/or the end of Commission 54 – van Belle (15min)



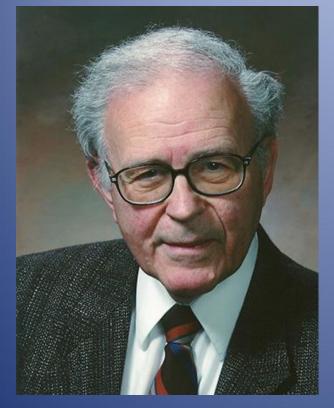
Bonus

Slides



Departed Close Binary Star Astronomers

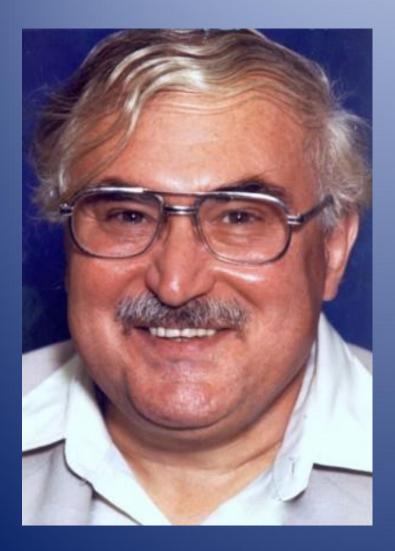




AAS President 1974-6 Director, Lick Observatory 1981-99 IAU President 1997-2000 Robert (Bob) Kraft (1927-2015)

Influential contributions to study of variable stars. Demonstrated that dwarf novae were close binaries and were linked to their evolution.





Tibor Herczeg (1926-2014)

Research on double & multiple stars, close binaries and stellar evolution.

> C42 President 1973-6 Editor, Bibliography of Close Binaries, 1983-8



Mikhail Lavrov (1972-2014)

Commission 42 member active in the observation and analysis of eclipsing and spectroscopic binaries.





Runqian Huang (1933-2013)

Commission 42 member active in stellar evolution, colliding winds, nonconservative binary evolution and evolution of rotating binaries.



Commission 42 Retiring Officers

- President: Mercedes Richards
- Vice President: Theodor Pribulla
- Organizing Committee
 - David Bradstreet
 - Carla Maceroni
 - Colin Scarfe
 - Shay Zucker

Horst Drechsel Joanna Mikolajewska John Southworth Tomaž Zwitter



G1 Demographics

 Faced with the prospect of two many Commissions for Division G, Commission 26 and 42 were encouraged to merge.

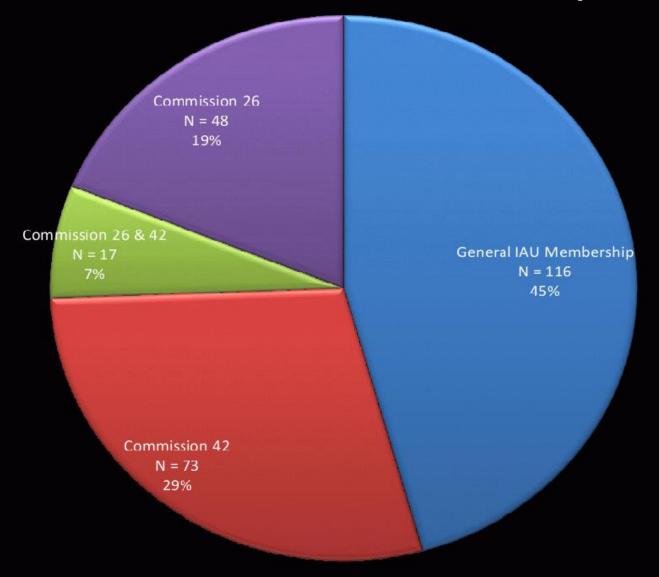
Commission 26 (Double and Multiple Stars)

+ Commission 42 (Close Binary Stars)

= Commission C.G1 (Binary and Multiple Systems)

- Working Groups and Publications of each Commission transition to new Commission
- Single website established.
- Commission merger conducted in the same manner as the successful Commission 8 & 24 merger.
- This did not happen.

Source of Commission G1 Membership





Commission G1 New Officers

- President: Andrej Prša
- Vice President: Virginia Trimble
- Organizing Committee:
 - Robert D. Mathieu
 - Terry Oswalt
 - John Southworth
 - Christopher Adam Tout
 - Tomaž Zwitter
 - Brian Mason