## 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

## In memoriam...



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

## 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

## In memoriam...



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

## In memoriam...



## 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

## In memoriam...

## Alexei Kiselev (1922-2013)



Major contributor in the area of relative astrometry with photography done at Pulkovo Observatory

C26 OC 1985-91

## In memoriam...

## 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.

## In memoriam...



## 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 Jose-Angel Docobo
- Vakhtang S. Tamazian Marco Scardia
- Theo ten Brummelaar Patricia Lampens
- Bo Reipurth

Andrei Tokovinin

## Yuri Balega



- Speckle Observer
- Director, SAO



## 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




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Recent News & Updates:
- 2015 March: link to latest Commission 26 Double Star Circular added
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## Jump to:

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

IAU Commission 26: Binary and Multiple Stars (Etoiles Doubles et Multiples)

- Commission Membership and Officers - Previous Commission 26 officers
- Commission Mission Statement, Reports, etc - Commission 26 mission statement


## 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


http://ad.usno.navy.mil/wds/bs//
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 ( 15 min )
- 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 $\quad \theta^{1}$ 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 $\mathrm{SB}_{9}$ 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



## In memoriam...



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.

## In memoriam...



## 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

## In memoriam...

## Mikhail Lavrov <br> (1972-2014)

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

## In memoriam...



## 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

