

## Physics of Evolved Stars 2015

A Conference Dedicated to the Memory of Olivier Chesneau

### Monday June 8

#### Session 1: Remembering Olivier Chairperson: Thierry Lanz

- 14h00: *Farrokh Vakili* Welcome
- 14h15: *Florentin Millour & Eric Lagadec* Olivier's scientific work (massive & low-mass stars)

#### Session 2: Winds, mass loss, jets Chairpersons: Nye Evans & Pierre Kervella

- 15h15: *Anthony Moffat* Colliding winds among massive stars
- 15h40: *Kenji Hamaguchi* The nature and origin of the central constant emission component of Eta Car
- 16h05: *Shazrene Mohamed* 3D models of stellar wind interaction symbiotics
- 16h30: *José Groh* Probing mass loss at the end stages of massive star evolution
- 16h55: *Robin Lombaert* The problematically short superwind of OH/IR stars

❖ 17h30: Welcoming Cocktail (wine & cheese)



## Tuesday June 9

### Session 2: Winds, mass loss, jets      Chairpersons: Nye Evans & Pierre Kervella

8h45: <i>Cyril Georgy</i>	Mass loss of red supergiants: a key ingredient for the final evolution of massive stars
9h10: <i>Mikako Matsuura</i>	CO mass-loss rate of red-supergiants at low metallicity
9h35: <i>Nicolas Fabas</i>	Hydrogen lines in Mira stars through interferometry and polarimetry
10h00: <i>Noam Soker</i>	The role of jets: from common envelope to nebula
10h25: Coffee Break	
10h50: <i>Leen Decin</i>	ALMA data suggest the presence of spiral structure in the inner wind of CW Leo
11h15: <i>Olga Suarez</i>	The first water fountain in a planetary nebula with synchrotron emission
11h40: <i>Eamonn Harvey</i>	GK Per, morpho-kinematical observations and modeling
12h05: <b>Discussion (session 2)</b>	
12h30: Lunch	

### Session 3: Binaries      Chairpersons: Orsola De Marco & Denis Mourard

14h00: <i>Jennifer Hoffman</i>	Mass Flows in Massive Binaries and their Evolutionary Implications
14h25: <i>David Jones</i>	Planetary nebulae: What can they tell us about binary evolution?
14h50: <i>Brent Miszalski</i>	New insights from close binary central stars of planetary nebulae
15h15: Coffee Break	
15h40: <i>Valerio Ribeiro</i>	Using VLTI for measuring accurate nova distances
16h05: <i>Robert Gehrz</i>	Observations of Novae in the Infrared in the SOFIA Era

- ❖ 17h30: *Agnès Acker*      Conférence publique (Bibliothèque Nucéra, *in French*)
- ❖ 20h00: Concert/Jam session in the bar “The Ketje”

## Wednesday June 10

### Session 3: Binaries *Chairpersons: Orsola De Marco & Anthony Moffat*

- 8h45: *Jana Nemravová* Yet another spectro-interferometric study of the gas distribution in the enigmatic semi-detached binary  $\beta$  Lyrae
- 9h10: *Anatoly Miroshnichenko* FS CMa type binaries
- 9h35: *Augustin Skopal* Evolved stars as donors in symbiotic binaries

10h00: Coffee Break

- 10h30: *Joanna Mikolajewska* Symbiotic stars in the Local Group of Galaxies
- 10h55: *Hans Van Winckel* 6 years of high-resolution spectroscopic monitoring of evolved binaries with HERMES: lessons learned
- 11h20: *Devika Kamath* Newly discovered, dusty, evolved, low-luminosity post-RGB stars in the Magellanic Clouds

11h45: **Discussion (session 3)**

12h15: Lunch

### Session 4: Disks *Chairpersons: Jean-Philippe Berger & Anthony Moffat*

- 13h30: *Martin Groenewegen* Mass-loss and luminosities of AGB stars in the Magellanic Clouds
- 13h55: *Joris Vos* Modelling eccentric long period hot subdwarf binaries with circumbinary disks
- 14h20: *Pierre Kervella* The nearby AGB star L2 Pup: the birth of a bipolar planetary nebula?
- 14h45: *Foteini Lykou* Unraveling disks around AGB stars
- 15h10: *Michel Hillen* An N-band interferometric survey of the disks around post-AGB binary stars
- 15h35: *Markus Wittkowski* The surfaces of evolved stars and the importance of molecular layers

16h00: **Discussion (session 4)**

16h30: Coffee Break & Poster session

❖ **19h00: Official reception, Chesneau Prize ceremony at Villa Massena**

## Thursday June 11

### Session 5: Circumstellar Environments *Chairpersons: F. Vakili & F. Millour*

- 8h45: *Miguel Montargès* The convection of close red supergiant stars observed with near-infrared interferometry
- 9h10: *Nathan Smith* Eta Carinae and the pre-supernova circumstellar material around massive stars
- 9h35: *Claudia Agliozzo* Exploring the mass-loss history and the dust content in circumstellar nebulae around LBV stars

10h00: Coffee Break & Poster session

### 11h00: Chesneau Prize Lecture

*Julien Milli* High-contrast imaging of debris disks

12h00: Lunch

13h30: *Nye Evans* The circumstellar dust shells of Sakurai's Object and other "Born-Again" stars

13h55: *David Gobrecht* From nuclei to dust grains: How the AGB machinery works

14h20: **Discussion (session 5)**

14h50: Coffee Break

### Session 6: Modeling, Evolution *Chairpersons: C. Leinert, E. Lagadec, & T. Lanz*

15h20: *Andrea Chiavassa* Pathways for observing stellar surfaces using 3D hydrodynamical simulations of evolved stars

15h45: *Ehsan Moravveji* Lessons from Asteroseismology of B-type Dwarfs

16h10: *Lizette Guzman* Double chemistry in Planetary Nebulae

❖ [Social evening at the Observatory](#)

**Friday June 12**

**Session 6: Modeling, Evolution**      *Chairpersons: C. Leinert, E. Lagadec, & T. Lanz*

- 8h45: *Tomislav Jurkic*                      Circumstellar dust in symbiotic novae  
9h10: *Zeinab Khorrami*                    The massive stars nursery R136  
9h35: *Sophie Van Eck*                    New clues on evolved stars nucleosynthesis  
10h00: *Sun Kwok*                          Synthesis of Complex Organics in the Late Stages of  
Stellar Evolution

10h25: **Discussion (session 6)**

10h50: Coffee Break

**Session 7: Conference Summary**      *Chairperson: Denis Mourard*

- 11h15: *Orsola De Marco*                  Conference Summary  
  
11h45: **General discussion**

Lunch

– CONFERENCE ENDS –