

**Four Decades of Research on Massive Stars:
A Scientific Meeting in Honour of Anthony F. J. Moffat
11-15 July 2011**

Sunday, 10 July 2011

16h00-18h00 Registration (In the main hall near the hotel desk)
18h00-19h00 Welcoming reception (Room: Baie du Village)
21h00 SOC meeting (Room: Baie du Roe)

**The talks will take place in the Baie du Village/Baie du milieu room.
The posters will be presented in the Baie du milieu room.**

Monday, 11 July 2011

7h00 Early swimming session (At the dock)
7h00-8h15 Breakfast
7h45-8h30 Registration
8h30 Opening remarks

Session I: Pulsations – Chair: Laurent Drissen

8h40 **Review: Tony Moffat** "Pulsations of Massive Stars"

9h10 **Ronny Blomme** "CoRoT Observations of O Stars: Diverse Origins of Variability"

9h30 **Sergio Simon-Diaz** "Macroturbulent Broadening: a Single Snapshot Alternative to Investigate Stellar Pulsations in Massive Stars?"

9h50 **General Discussion – Session 1**

10h15 Coffee break and poster viewing (Baie du milieu room)

Session II: Rotation and Magnetic Fields

10h45 **Review: Gregg Wade** "Rotation and Magnetic Fields"

11h15 **Jason Grunhut** "The Incidence of Magnetic Fields in Massive Stars: An Overview of the MiMeS Survey Component"

11h35 **Jonathan Braithwaite** "Why do Massive Stars Contain Such Weak Magnetic Fields?"

11h55 **Matteo Cantiello** “Turbulence and Magnetic Fields Generated by Subsurface Convection in Hot, Massive Stars”

12h15 **Véronique Petit** “Magnetospheres of Massive Stars Across the EM Spectrum”

12h35-14h00 Lunch (Hotel restaurant)

14h00 **Thierry Morel** “Mixing in Magnetic Massive Stars”

14h20 **Asif ud-Doula** “3D MHD Simulations of the Magnetic Star θ^1 Ori C”

14h40 **Selma de Mink** “Properties of Young Massive Stars and the Role of Rotation, Binary Interaction & Stellar Mergers”

15h10 **Catherine Lovekin** “Mass Loss in 2D Stellar Models”

15h30 **Charles Proffitt** “Observations of Boron Abundances in Rapidly Rotating Early-B Stars”

15h50 Coffee break and poster viewing (Baie du milieu)

16h20 **Nicole St-Louis** “Time-Series of Linear Spectropolarimetric Observations of WR Stars”

16h40-17h45 **General Discussion Session II**

Tuesday, 12 July 2011

7h00 Early swimming session

7h0-8h15 Breakfast

Session III: Mass-Loss and Clumping in Hot Stellar Winds of Massive Stars

8h30 **Review: Jon Sundqvist** "The True Nature of Clumping in Hot Stellar Winds and its Consequences"

9h00 **Jiri Kubat** “Validity of Clumping Approximations for Mass-Loss Rate Determinations”

9h20 **Lidia Oskinova** “X-ray Emission from Massive Stars and What We Can Learn about Stellar Winds from it”

9h40 **Ken Gayley** “Moffat Clumps as the Source of X-rays from Single WR stars”

10h00 **David Cohen** “X-Ray Spectroscopy of the O2 If* Star HD93129A: Embedded Wind Shocks and a Mass-Loss Rate Measurement”

10h20 Coffee break and poster viewing (Baie du milieu)

10h45 **Stan Owocki** “The Physical Basis for the $L_x - L_{bol}$ Empirical Law for Hot Star X-Rays”

11h05 **Diah Setia Gunawan** “Observing Massive Stars with ALMA”

11h25 **Noel Richardson** “LBVs: Recent Spectroscopic and Interferometric Observations”

11h45 **General Discussion – Session 3**

12h30-14h30 Lunch (Hotel restaurant)

Session IV: The Most Luminous Stars

14h30 **Review: Olivier Schnurr** “The Most Massive Stars”

15h00 **Paul Crowther** “Very Massive Stars & the Eddington Limit”

15h20 **Goetz Grafener** “Massive Stars Close to the Eddington Limit: Mass-Loss and Envelope Inflation”

15h40 Coffee break and poster viewing (Baie du milieu)

16h15 **Jorick Vink** “Wind Models for Very Massive Stars up to 300 Msun”

16h35 **Kerstin Weis** “LBV Nebulae as Tracers of Stellar Instabilities”

16h55-17h30 **General Discussion – Session IV**

Wednesday, 13 July 2011

7h00 Early swimming session

7h00-8h15 Breakfast

Session V: Massive Star Wind Models

8h30 **Artemio Herrero** “Challenges to Massive Star Theories”

9h00 **Miriam Garcia** “OB Stars in IC1613: Crossing the Frontier of the Magellanic Clouds”

9h20 **John Hillier** “Improving the Fundamental Accuracy of O-Star Parameters & Abundances”

9h40 **Wolf-Rainer Hamann** “WC Stars and Their Role in the Life Cycle of Massive Stars”

10h00 **Brankica Surlan** “3D Monte Carlo Radiative Transfer Calculations of Resonance Line Formation in Inhomogeneous Expanding Stellar Wind”

10h20 Coffee break and poster viewing (Baie du milieu)

10h50 **General Discussion – Session V**

Session VI: Massive Binaries

11h20 **Review: Doug Gies** “Massive Binaries: Dynamical and Evolutionary Transformations”

11h50 **Hugues Sana** “The Multiplicity Properties of Massive Stars in 30 Doradus”

12h10 **Alceste Bonanos** “Fundamental Parameters of 4 Massive Eclipsing Binaries in Westerlund 1”

12h30-14h00 Lunch (Picnic boxes or hotel restaurant)

Excursion or Activities

Thursday, 14 July 2011

7h00 Early swimming session

7h00-8h15 Breakfast

Session VI: Massive Binaries (continued)

8h30 **Olivier Chesneau** “Dense Circumstellar Environments & Binarity”

8h50 **Mark Gagné** “An X-Ray Survey of Colliding Wind Binaries”

9h10 **Thomas Madura** “Multi-Wavelength Implications of the Companion Star in η Car”

9h30 **Augusto Damineli** “The Nature of the Periodic Events in η Carinae: Collapse of the Wind-Wind Collision”

9h50 **Mike Corcoran** “Acyclic High Energy Variability in η Carinae and WR140”

10h10 Coffee break and poster viewing (Baie du milieu)

10h45 **Sean Dougherty** “The Orbit and Proper Motion of WR140 from High Resolution Radio Imaging”

11h05 **General Discussion – Session VI**

Session VII: Young Open Star Clusters: Keys to Understanding Massive Stars

12h00 **Review: Ben Davies** “Young Open Star Clusters: Keys to Understanding Massive Stars”

12h30-14h00 Lunch (Hotel restaurant)

14h00 **Dany Vanbeveren** “The Formation & Evolution of Massive & Very Massive Stars in Dense Stellar Clusters”

14h20 **Carmelle Robert** “UVIT Characteristics of Young Stellar Populations”

14h40 **Julian Pittard** “Feedback from Stellar Winds & Supernovae in Massive Stellar Clusters”

15h00 **Emile Doran** “Testing Feedback Models with Nearby Star Forming Regions”

15h20 **Andre Nicolas Chene** “Young Stellar Clusters in the VVV Survey: Towards a Better Understanding of their Early Evolution”

15h40 Coffee break and poster viewing (Baie du milieu)

16h15 **Linda Smith** “Stellar Feedback at Low Metallicity: the Gas Dynamics of the Young SMC Cluster NGC 346”

16h35 **Nikolaus Vogt** “As Ph.D. Students in Germany: Remembering a Fruitful Collaboration with Tony Moffat on Star Clusters and Galactic Structure (1967-1975)”

16h55-17h40 **General Discussion – Session VII**

Friday, 15 July 2011

7h00 Early swimming session

7h00-8h15 Breakfast

Session VIII: Massive Star Formation

8h30 **Review : Sally Oey** “Completing the Massive Star Population: Striking into the Field”

9h00 **Joel Lamb** “The IMF of Field OB Stars in the SMC”

9h20 **Lex Kaper** “On the Formation of Massive Stars”

9h40 **Kaitlin Kratter** “The Formation and Evolution of Massive Binaries and Multiples”

10h00 **Hans Zinnecker** “Is Massive Star Formation a Scaled-up Version of Low-Mass Star Formation?”

10h20 Coffee break and poster viewing (Baie du milieu)

10h50 **General Discussion – Session VIII**

Session IX: Massive Star Surveys

11h20 **Review: Mike Shara** “WR Surveys in the Galaxy”

11h50 **Jon Mauerhan** “Red Eyes on WR stars: New discoveries in the Galaxy via IR color selection”

12h10 **Stefanie Wachter** “Massive Evolved Stars with Circumstellar Shells”

12h30-14h00 Lunch (Hotel restaurant)

14h00 **Joanne Bibby** “Searching for Wolf-Rayet Stars in M101 and Beyond”

14h20 **Jesus Maiz Apellaniz** “The Galactic O Star Spectroscopic Survey & its Relationship to Similar Surveys”

14h40 **Nolan Walborn** “The ONn Giants”

15h00 **Laurent Drissen** “Hyperspectral Imagers for the Study of Massive Star Nebulae”

15h20 Coffee break and poster viewing (Baie du milieu)

15h45 General Discussion – Session IX

16h30-17h00 Wrap-up – Andy Pollock

17h00-17h30 General Discussion

19h30 Banquet (Baie du milieu)