

OCTOBER 6TH TO 10TH 2025

51 PEGASI b

COOL GIANT PLANETS AND THEIR SYSTEMS



Organisation

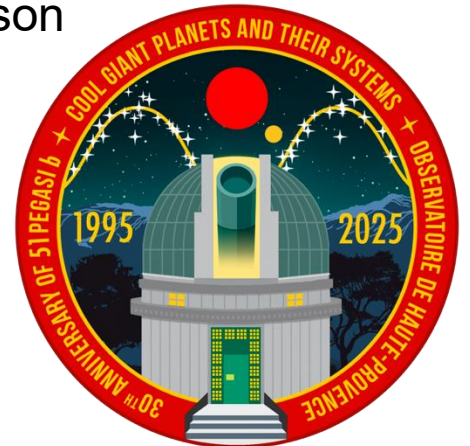
SOC

- Isabelle Boisse (OSU Pythéas) **[co-chair]**
- Arthur Vigan (LAM) **[co-chair]**
- Damien Ségransan (Observatoire de Genève) **[co-chair]**
- Isabelle Baraffe (University of Exeter and CRAL)
- Paola Pinilla (UCL)
- Timothy Brandt (UCSB)
- Elodie Choquet (LAM)
- Alexandre Correia (University of Coimbra)
- René Doyon (Université de Montréal)
- Dan Fabrycky (University of Chicago)
- Debra Fischer (Yale)
- Tristan Guillot (Laboratoire Lagrange)
- Anne-Marie Lagrange (Observatoire de Paris, LIRA)
- Michel Mayor (Observatoire de Genève)
- Richard Nelson (Queen Mary University of London)
- Stéphane Udry (Observatoire de Genève)
- Lauren Weiss (University of Notre-Dame)
- Maria-Rosa Zapatero Osorio (CAB)

LOC

- Isabelle Boisse
- Nathalie Bressand
- Nathalie Desmons
- Marc Ferrari
- Anne-Marie Galliano
- Jean-Charles Ize
- Arthur Vigan

+ cool conference logo and poster
by Sarah Anderson



OHP colloquium series



OHP colloquium series

- 1995: the « prequel »

Conference at OHP on ground-based detection of extrasolar planets
A few months before 51 Peg b announcement



OHP colloquium series

- 1995: the « prequel »
- 2005: Status and prospects of hot Jupiter studies



 International Colloquium 

Tenth Anniversary
of 51 Peg-b

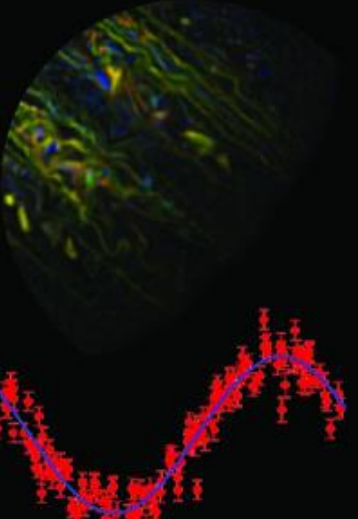
Status of and prospects for hot Jupiter studies

22 - 26 August 2005

Observatoire de Haute-Provence (France)

S.O.C.
F. Allard
M. Boer (co-Chair)
D. Charbonneau
G. Marcy
M. Mayor (Chair)
C. Moutou
J.C.B. Papaloizou
D. Queloz
D. Sasselov
A. Udalski
A. Vidal-Madjar
G. Walker

L.O.C.
L. Arnold
M. Boer
F. Bouchy
A. Laloge
C. Moutou



Contact
www.obs-hp.fr/~51peg10y/
51peg10y@oamp.fr





OHP colloquium series

- 1995: the « prequel »
- 2005: Status and prospects of hot Jupiter studies
- 2010: Detection and dynamics of transiting exoplanets



OHP colloquium 2010

August, 23-27, 2010
Observatoire de Haute-Provence, France

Detection and dynamics of transiting exoplanets

Science Organizing Committee:

- G. Bakos
- F. Bouchy
- A. Cameron
- A. Correia
- S. Ferraz-Melo
- G. Hébrard
- J. Laskar
- D. Latham
- G. Laughlin
- C. Moutou (chair)
- S. Udry (co-chair)
- J. Winn

Local Organizing Committee:

- L. Arnold
- F. Bouchy (chair)
- N. Bressand
- R. Diaz
- A.M. Galliano
- A. Lalogue (secretary)
- A. Santerne

www.obs-hp.fr/ohp2010
ohp2010@oamp.fr

Logos of participating organizations: OHP, CNRS, INSU, OAMP, ANR, CNES, CONSEIL GENERAL, and others.

OHP colloquium series

- 1995: the « prequel »
- 2005: Status and prospects of hot Jupiter studies
- 2010: Detection and dynamics of transiting exoplanets
- 2015: 20 years of giant exoplanets

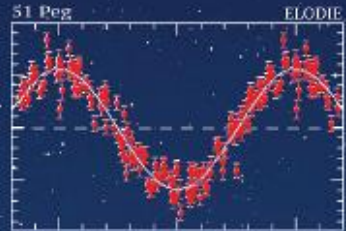


OHP - 2015 colloquium

20 Years of Giant Exoplanets

<http://ohp2015.sciencesconf.org/>

5 - 9 October 2015
Observatoire de Haute-Provence - France



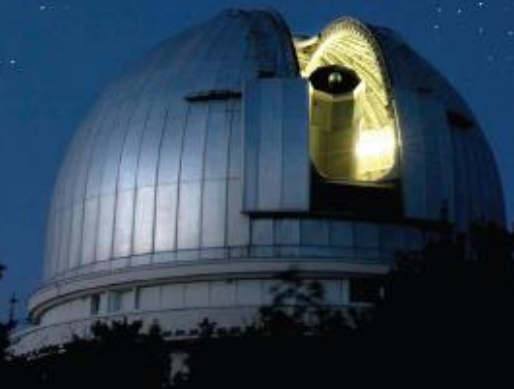
- Transiting giant exoplanets
- Jupiter-like planets from long-term RV surveys
- Directly imaged planets
- Atmosphere characterization
- Internal structure modeling
- Dynamics of systems: from observations to theory
- Formation and migration scenarios
- Star-planet interactions: tides, irradiation

SGC

R. Alonso
I. Boisse (chair)
F. Bouchy
D. Fabrycky
K. Heng
J. Laskar
M. Mayor (co-chair)
I. Snellen
A. Sozzetti
S. Udry
A. Vigan
P. Wheatley
J. Wright

LOC

L. Arnold
F. Bouchy (chair)
N. Bressand
M. Deleuil
D. Demangeon
A.M. Galliano
A. Lagos
A. Le Van Suu
J.P. Payan



Aix-Marseille Université CIRS Institut d'Astrophysique de l'Université de Provence Observatoire de Haute-Provence CNRS Institut de Recherche en Astrophysique et Planétologie Observatoire de la Côte d'Azur

OHP colloquium series

- 1995: the « prequel »
- 2005: Status and prospects of hot Jupiter studies
- 2010: Detection and dynamics of transiting exoplanets
- 2015: 20 years of giant exoplanets
- ~~2020: Planets of red dwarf stars~~ (canceled because of covid 19)

OHP 2020 - Colloquium : Planets of red dwarf stars

27 Sep. - 2 Oct. 2020

Observatoire de Haute-Provence (France)



OHP colloquium series

- 1995: the « prequel »
- 2005: Status and prospects of hot Jupiter studies
- 2010: Detection and dynamics of transiting exoplanets
- 2015: 20 years of giant exoplanets
- ~~2020: Planets of red stars (canceled because of covid 19)~~
- **2025: Cool giant planets & their systems**

Many new facilities since last edition : Gaia, SPHERE, GPI, GRAVITY, SPIRou, TESS, ESPRESSO, JWST, NIRPS...

→ Numerous results and hot new topics !

Focus on **long-period giant planets and their systems**

- Long-term radial velocity surveys
- Direct imaging and spectroscopy of young systems
- High-accuracy orbital monitoring with interferometry
- Microlensing detections
- Characterisation of planetary companions at high spectral resolution
- Upcoming release of ESA/Gaia DR4 data



	Sunday 5	Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
8h45			Session - Cold Jupiters and close-in small planets		K. SchlaufmanRealizing the Full Potential of Gaia Astrometry for the Characterization of the Population of Cool Giant Planets	J. Birkby & E. MatthewsReview on Atmospheric characterization
9h				Splinter sessions	Session - RV and Gaia	
10h		Welcome of participantsFrench institutional celebration for the 30th anniversary	Coffee break	Coffee break	Feedback from Gaia splinter session + discussion	C. HsuGiant Planets and Low-mass Companions Show Different Spins but Similar C/O Ratios from Keck/KPIC High-resolution Spectroscopy
11h			J. SahlmannReview on Gaia			W. BalmerJWST Coronagraphic Imaging of Eccentric, Cold Giants: 14 Her c and HD 222237 b
12h		Walk to building Jean Perrin	M. NowakDark hole + Interferometry: a winning combo enabled by GRAVITY+ O. Carrion-GonzalCharacterizing cold giant exoplanets and their planetary systems in direct imaging			M. MalinMid-infrared spectroscopy of directly imaged giant planets with JWST/MIRI.
13h		Lunch @ OHP [12:30 - 13:30]	F. MalbetTheia's Astrometric Power for Giant Exoplanets			F. MillourHunting exoplanets spectra with MATISSE
14h		Walk to conference room	Z. FarzanehUpdated Yield Predictions of Cold Giant Planets for Roman Galactic Exoplanet Survey		Session - Giant planets around M dwarfs	D. EhrenreichTwo years of atmospheric characterization with The Near Infra-Red Planet Searcher (NIRPS)
15h	Welcome of participants		R. LaugierFrom Asgard/NOTT to LIFE : grasping the power of nulling interferometry			Feedback from atmosphere splinter session + discussion
16h			Walk to building Jean Perrin	Walk to building Jean Perrin		Walk to building Jean Perrin
17h			Lunch @ OHP [13:00 - 14:00]	Lunch @ OHP [13:00 - 14:00]		Lunch @ OHP [13:00 - 14:00]
18h			Walk to conference room			Walk to conference room
19h			A. Triaud & B. BowlerReview on planetary systems, architecture, and dynamics		M. Lambrechts & A. ZiamprasReview on formation	R. Helled & J. FortneyReview on interior modeling and evolution
>20h			J. WangPrecise and novel orbital measurements for the imaged giant planet population using VLTI/GRAVITY	Outdoor activities	M. HoulléMid-infrared long-baseline interferometry of the PDS 70 protoplanets' circumplanetary disks	H. KnierimUnraveling the origin of giant exoplanets – Observational implications of convective mixing
			K. FransonAstrometric Accelerations as Dynamical Beacons: Efficiently Imaging Planets Around Young Accelerating Stars		K. CrottsExploration of the TWA 7 Planet-Disk System with JWST NIRCam	S. Ulmer-MollUnveiling transiting temperate giants in multi-planetary systems
			Break & drinks		Break & drinks (30 min break instead of 45 min)	T. GuillotTemperate transiting planets : discoveries and opportunities
			A. SanghiWorlds Next Door: A JWST Imaging Search for Giant Planets Orbiting Alpha Centauri A		J. HaochangRing-Driven Planets and Debris Disk Formation in HR 8799 and Other Directly-Imaged Planetary Systems	S. MuellerDeep radiative zones in giant planets: Implications for interior and atmospheric characterisation
			S. JenkinsProbing the Population of Giant Planets Around White Dwarfs with JWST		D. TrevascusDifferentiating hot- and cold-start formation with new dynamical masses for the PDS 70 protoplanets	Break & drinks
			A. AdamsonSearching for Circumbinary Planets With BEBOP		C. FinleySynthesizing Accretion and Circumplanetary Disk Properties of a Wide Orbit Planet with HST and JWST	Feedback from the questionnaires + discussions
			A. SmithFirst results from the Warm Object Rossiter-McLaughlin Survey (WORMS)		S. SchmidtMost hot jupiters were cool giant planets for >1 Gyr	
			H. OsbornA transiting solar system analogue discovered in TESS		J. WederTowards planetary population syntheses in MHD wind-driven discs	End of the conferece
			J. Lillo-BoxThe KOBE experiment: a radial velocity blind search survey 30 years after 51 Peg b		P. GriveaudHow to halt the inward migration of giant planets.	
			G. HébrardSearching and studying cool giant planets and their systems with SOPHIE at OHP		M. PoonEarly evidence for isotropic planetary obliquities in young super-Jupiter systems	
			L. WeissThe Kepler Giant Planet Search. I. A Decade of Kepler Planet-host Radial Velocities from W. M. Keck Observatory		Conference dinner	
			Poster pop-up 2			
			Poster session 2			
			Cocktail dinner @ OHP and conference picture			

Splinter sessions

- Gaia
- Atmospheric characterisation



Code of conduct

The conference will follow the code of conduct from the European Astronomical Society (EAS) :

The mission of the European Astronomical Society (EAS) is to promote and advance astronomy in Europe. To best pursue this endeavour, we provide ethical guidelines for EAS members, and more generally for individuals involved in the professional astronomical community.

The EAS welcomes and respects all of its members, regardless of (but not limited to) race, ethnicity, nationality, religious belief, gender, gender identity, sexual orientation, disability, age, family status or socio-economic status. It strives to create an inclusive environment where all members can grow as scientists, contribute to their fullest potential to the advancement of astronomy, and be afforded equal opportunities to move forward in their careers.

All scientists should act ethically in their capacity as researchers, teachers, educators and mentors, and should be aware of their responsibility of training students and young scientists in ethical conduct. The following points describe the minimal ethical standards expected by the EAS. A more-detailed list of recommended good practices is available in the companion document (EAS Guidelines for Good Practice). Where there is violation of the ethics promoted in these documents, the EAS reporting structure is intended only for incidents connected to EAS meetings/events. For other events, the EAS recommends a reporting procedure at the appropriate level so that the relevant body can take suitable action.

→ please report any problem to one of the SOC co-chairs or LOC members

Practical information

- Lunch are served at the tables. We must be on time at lunch !
- Same thing for those who have dinner on site on Monday, Wednesday and Friday
- Many people walk around the site please drive carefully. At night, there are observations, so please turn on your hazard lights and drive very slowly
- Spinter session on Wednesday :
 - Atmosphere of Jupiters OR Hands-on session on GAIA release DR4
 - **We need you to indicate which session you will attend in order to assign the right room for each**
- Payement for the rooms and dinners : we'll get back to you during the week :-)



EMERGENCY INSTRUCTIONS

ACCIDENT

① Call paramedics (SAMU): dial (0)15 or (0)112

Specify where you are and the extension you are calling from.

② Dial internal emergency number (on-call staff)

+33 (0)6 38 24 97 72

PHONE NUMBERS

Dial 0 to call outside the site

Paramedics (SAMU)	15 ou 112
Fire Department	18
Police	17
Gendarmerie	04 92 75 00 19

LOCATION OF DEFIBRILLATORS

- ① Administration side entrance
+ location of stretcher
- ② Jean Perrin Guesthouse entrance

Letting outside help in

① Outside help should dial your extension from the entrance post.

② Answer the call and open the gate by dialing:

***55* (digital)**

55* (analog)

③ In case you called
(0) 06 38 24 97 72, follow the instructions from the person on duty.

FIRE

IN CASE A FIRE STARTS NEAR YOU:

- Keep calm
- Call the Fire Department: (0) **18**
- Warn other people in the building
- Dial the internal emergency number: **(0)06 38 24 97 72**
- Warn the Observatory management

WHEN THE FIRE ALARM SOUNDS:

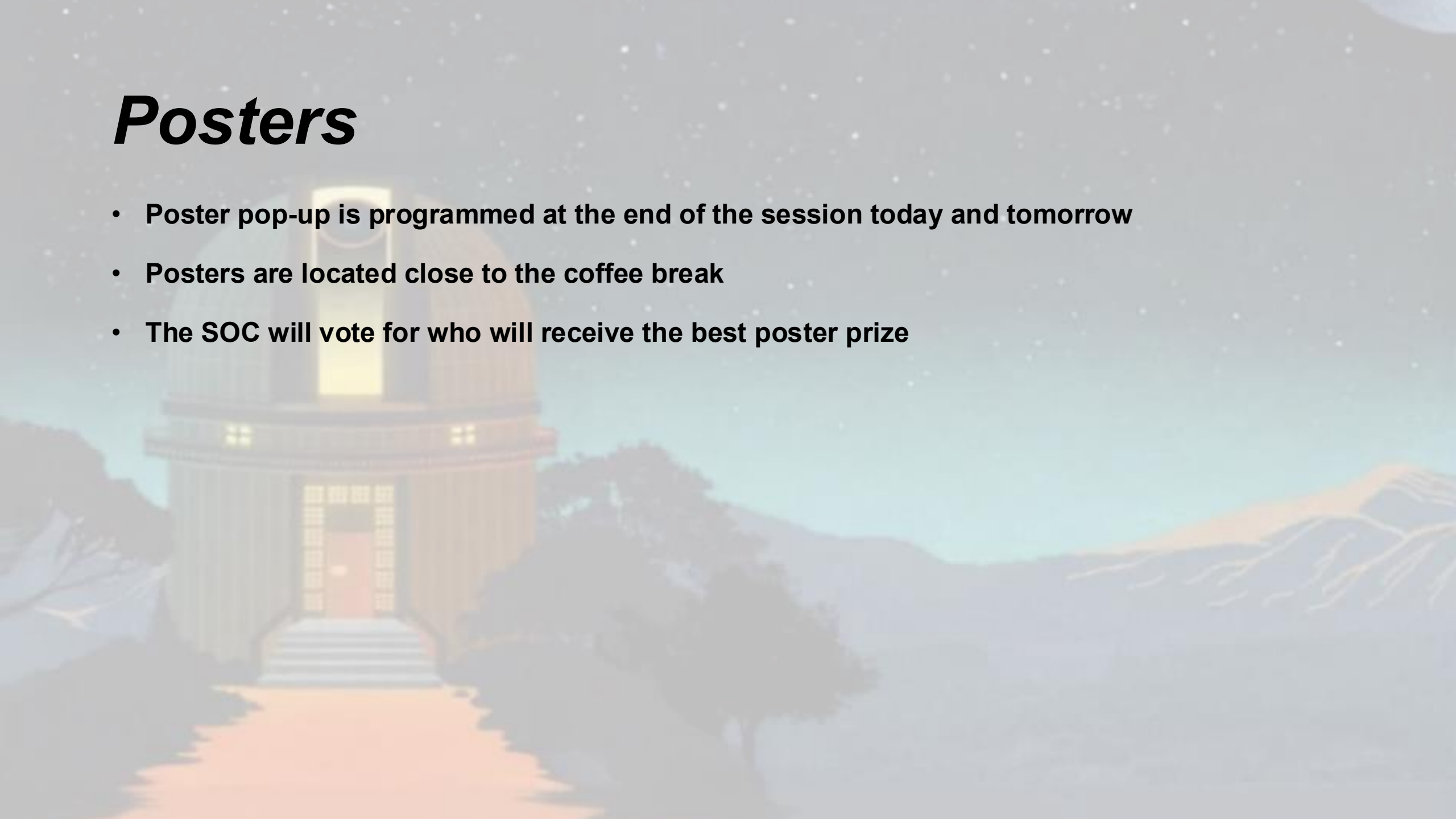
- Keep calm.
- Move towards the exits, but without hurrying.
- Don't use elevators or lifts.
- In case of smoke, keep low, fresh air is near the ground.
- Go to the meeting point.
- Make sure nobody is missing.

WHEN FIGHTING A FIRE:

- Don't risk your life.
- Turn off gas and electricity.
- Direct the extinguisher towards the base of the flames, but be careful.
- If the fire goes out of control, stop all attempts at extinguishing it.
- Close all windows and doors.
- Leave the premises.

Posters

- **Poster pop-up is programmed at the end of the session today and tomorrow**
- **Posters are located close to the coffee break**
- **The SOC will vote for who will receive the best poster prize**



Social activities

- Visit of the 1.93m telescope are possible on Monday at 18h45 and Friday at 18h

Register for on of the visit !

- Tuesday a cocktail dinner is offered to all participants and will be preceded by the conference picture - bring your favorite wine, drinks, or food speciality to share
- **Register for the excursions on Wednesday**
- A ping-pong tournament is being organized for wednesday evening by team of 2. **Subscribe !**
The winning table tennis team will receive a prize.
- Public conference by Michel Mayor at Forcalquier on Wednesday 6pm
- The conference dinner is on Thursday evening
- A movie from 1995 is proposed in this room tonight and on Friday



Questionnaire

- On a precedent edition, 20 yrs ago, a questionnaire was proposed to the participants
leaded by David Charbonneau
- We will come back on it on Friday afternoon, as well as a new questionnaire



*Proceedings of Haute Provence Observatory Colloquium (22-25 August 2005)
Edited by L. Arnold, F. Bouchy, and C. Moutou*

Hot Jupiters: lands of plenty

D. Charbonneau

*Harvard-Smithsonian Center for Astrophysics, 60 Garden Street,
Cambridge, MA 02138 USA [dcharbonneau@cfa.harvard.edu]*

Abstract. In late August 2005, 80 researchers from more than 15 countries convened for a 4-day conference entitled “The Tenth Anniversary of 51 Peg b: Status and Prospects for Hot Jupiter Studies”. The meeting was held at l’Observatoire de Haute-Provence, the location of the 1.93-m telescope and ELODIE spectrograph used to discover the planetary companion to 51 Peg roughly 10 years ago. I summarize several dominant themes that emerged from the meeting, including (i) recent improvements in the precision of radial velocity measurements of nearby, Sun-like stars, (ii) the continued value of individual, newly-discovered planets of novel character to expand the parameter space with which the theory must contend, and (iii) the crucial role of space-based observatories in efforts to characterize hot Jupiter planets. I also present the returns of an informal poll of the conference attendees conducted on the last day of the meeting, which may be amusing to revisit a decade hence.



Badge game

- A planet name is on your badge

Search and find the relation that determine the relationship between the participants and their planet.

Thanks Bhavesh !

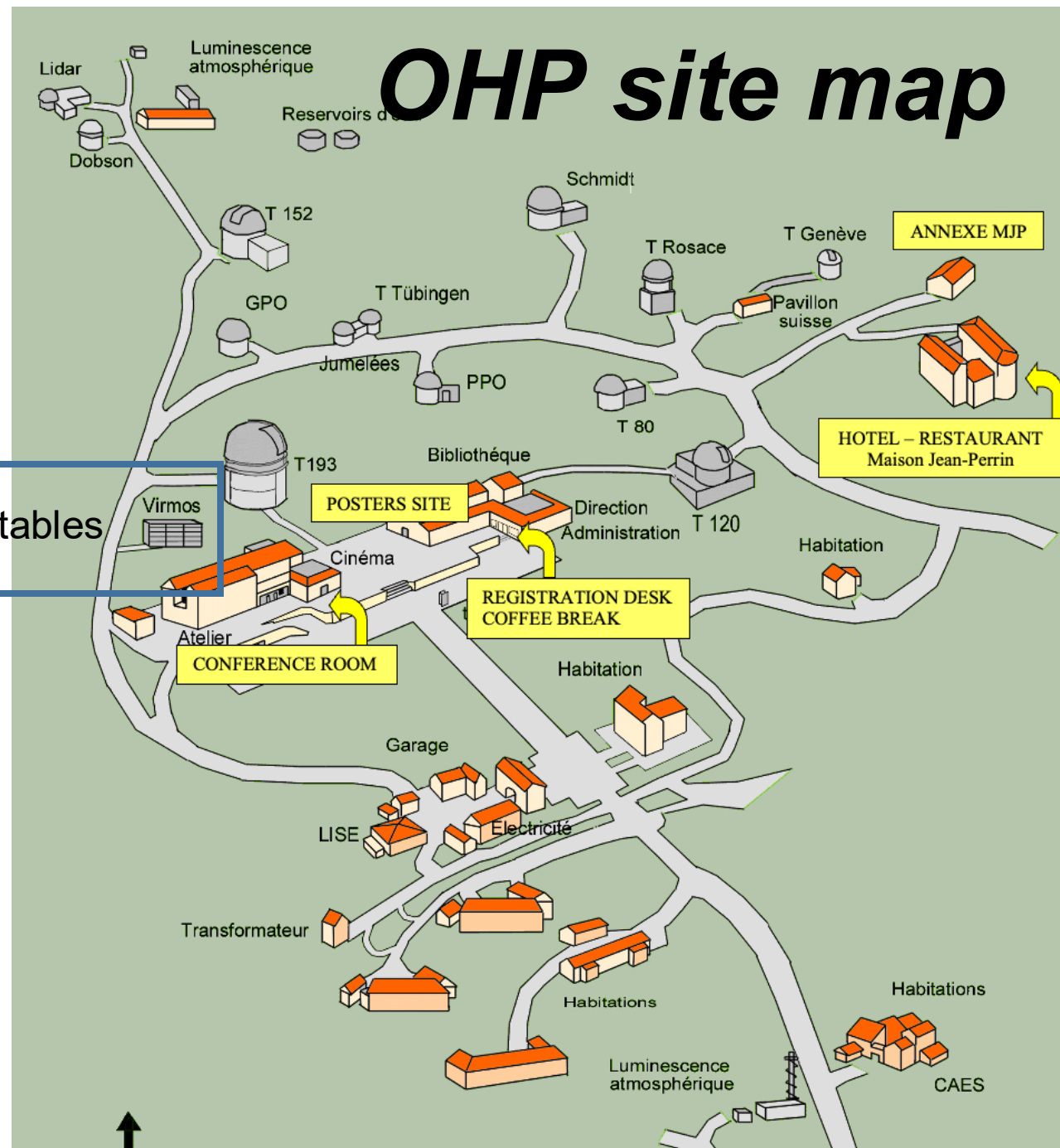
If you think of having found the solution of the enigma, contact as soon as possible Isabelle Boisse or Arthur Vigan.

A prize will be awarded to the winner.



OHP site map

Ping-pong tables



Have a nice conference !

