



atlas
dark sky
morocco
dark sky reserve

PROGRAM

INTERNATIONAL INTERDISCIPLINARY
WORKSHOP
ON LIGHT POLLUTION

MARRAKECH
22 - 26 OCTOBER

**TOWARD THE FIRST
DARK SKY RESERVE
IN NORTH AFRICA**

2018

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PARTNERS



INTERNATIONAL INTERDISCIPLINARY WORKSHOP ON LIGHT POLLUTION

MARRAKECH

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2018

The workshop is organized in the framework of a new project called Atlas Dark Sky Morocco (ADSM). The project is aiming the creation of a Dark Sky Reserve around the Oukaimeden observatory in Morocco. The reserve will cover a large area including the Toubkal National Park and the Oukaimeden observatory, with a radius of about 80 km, it will become the largest Dark Sky Reserve worldwide and the first in North Africa.

The meeting aim is to bring together experts to discuss the current state of the art in that field, facilitate future development of research, favor the establishment of new dark sky places and help to restrict the unwanted effects of light pollution.

24 WEDNESDAY

All the day :

Trip to National Parc Toubkal

18:30 - 20:30

NICOLAS BOURGEOIS
Public Conference 3 : *Vivre sous les étoiles : l'importance de conserver le lien cosmique.*
TERRE D'AMANAR

25 THURSDAY

All the day :

Visit to Oukaimeden Observatory

18:30 - 20:30

RÉMI BOUCHER
Public Conference 4 : *La protection du ciel étoilé, de son émergence à sa mise en œuvre.*
DAR SAIDDA



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22 MONDAY

OPENING CEREMONY :
UCA PRESIDENT /
BENKHALDOUN / AUBE

AWARD CEREMONY FOR COMPETITIONS
WINNERS

COFFEE BREAK

CHAIR: ORTOLANI
Effects of light pollution on the environment

ARIADNA GARCIA
Evaluation the association between artificial
light-at-night exposure and cancer risk in
Spain (MCC-Spain Study)

FETNASSI NIDAL
The impact of light pollution on fauna:
In particular Moths

MOHAMED GHAMIZI
Biodiversity and light pollution

SOUMIA MOUTAOUAKIL
The impact of light pollution on
Cavernicolous fauna

STEFANO CAVAZZANI
Satellite study of the correlation between
light emission and aerosols from 2002 to
2017 around the Oukaimeden observatory
in Morocco

BREAK & LUNCH

CHAIR : HANEL
Effects of light pollution on the environment

CASIANA MUNOZ-TUNON
A perfect Sky for understanding the Universe

SERGIO ORTOLANI
Effects of light pollution on astronomical
observations

ISMAEL MOUMEN
The Problem of Light Pollution in
Oukaimeden: An opportunity for local
development using Astronomy

POSTER SESSION

COFFEE BREAK

CHAIR: MUNOZ-TUNON
Modeling

MARTIN AUBÉ
Illumina: a powerful numerical tool for
optimizing sky quality of dark sky places

SÉBASTIEN VAUCLAIR
Night Sky Quality Prediction with a Discrete
Light Source Model

HECTOR LINARES
Modelling the night sky brightness and light
pollution sources of Montsec protected area

ALEXANDRE SIMONEAU
Modeling the Oukaimeden Observatory night
sky with the illumina radiative transfer model

WELCOME RECEPTION

MARTIN AUBÉ
Public Conference 1 :
La nuit: en voie de disparition?
INSTITUT FRANÇAIS MARRAKECH

23 TUESDAY

08:30 - 10:00 CHAIR : VARELA
Social sciences, laws and regulations

08:20 - 08:40 HECTOR LINARES
on behalf of Salvador Ribas The Sky of
Montsec. How a Dark Sky is impacting in the
economy of a rural area.

08:40 - 09:00 RÉMI BOUCHER
The challenges and benefits of creating an
International Dark Sky Reserve

09:00 - 09:20 EL MOUDEN EL HASSAN
Artificial lighting in Toubkal National Parc
(Morocco): Any effects on wild animals ?

09:20 - 09:40 ABDOUL OUSMANE DIA
The Information System of the Atlas Dark
Sky Reserve project (ADSR-IS)

09:40 - 10:00 POSTER SESSION

10:00 - 10:30 COFFEE BREAK

10:30 - 12:30 CHAIR: MOUMEN
Social sciences, laws and regulations

10:30 - 10:50 ANDREAS HANEL
Star Parks in Germany - Best practice to
reduce light pollution

10:50 - 11:10 PIERO BENVENUTI
The IAU/COPUOS Conference on the
protection of dark and quiet skies.

11:10 - 11:30 NICOLAS BOURGEOIS
« Pyrénées la nuit » project: Evolution
of night sky protection strategies and
challenges for the Pic du Midi IDSR

11:30 - 11:50 HASSANE DARHMAOUI
Light Pollution Awareness Campaigns and
Educational Programs in Morocco

11:50 - 12:10 ZOUHAIR BENKHALDOUN
ADSM Project

12:10 - 14:15 BREAK & LUNCH

14:15 - 15:45 CHAIR : LINARES
Field study

14:15 - 14:35 MIQUEL SERRA-RICART
STARS4ALL Night Sky Brightness
Photometer

14:35 - 14:55 ZOLTAN KOLLATH
Characterizing potential dark sky places with
digital cameras

15:55 - 15:15 MIA CARON
CoSQM: Multispectral sensor for the night
sky brightness detection

15:15 - 15:45 POSTER SESSION

15:45 - 16:15 COFFEE BREAK

16:15 - 17:55 CHAIR: BENKHALDOUN
Tourism

16:15 - 16:35 ANTONIA M VALERA
Starlight in action: bringing science and
tourism together

16:35 - 16:55 MADANI HATIM
Astrotourisme, concepts et réalités. Etat des
lieux et perspectives de l'astrotourisme au
Maroc en 2018

16:55 - 17:15 BENHSAIN WAFAA
Sustainable Tourism in the Toubkal National
Park Area

17:15 - 17:35 ROUND TABLE
Creation of the ADSM Foundation

17:35 - 18h15

18:30 - 20:30 SÉBASTIEN VAUCLAIR
Public Conference 2 :
*Pollution lumineuse : analyse scientifique,
impacts et solutions*
ATLAS GOLF MARRAKECH
Reception Diner