

IDA EuropeUpdate

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European Liaison Officer, Board of Directors

Osnabrück, Germany, 6-8 October 2011



Agenda

- Why we fight
- IDA Europe Update and issues
- Conclusion



Why we are doing this

Treats and evolutions



Definition

light pollution is the introduction by humans,
directly or indirectly, of artificial light into
the environment.

Environmental consequences

- Ecological consequences of artificial night lighting.
- Consequences of coral reefs
- Light traps for birds
- Effects of evolutions on several plants
- Disappearing of some butterflies
- Life cycle of bats and sing birds
- ...

Ecological Consequences
of
Artificial Night Lighting

Edited by:
Catherine Rich • Travis Longcore

Energy consumption

- > 30% of Light is spilled to the sky!
- Sint-Niklaas signed local Kyoto protocol.
 - > 6% energy reduction realized by some small changes on public lighting system in a couple of months.
- Governments need to give the good example

Night Sky

- Science can not be done in serious way.
- Promoting astronomy is difficult
- Astronomers are the canary in the light polluted mines.

Object: M78, reflection nebula
Date: September 14, 2007
Instrument: TMB 8 cm refractor + Televue reducer
Camera: SBIG ST10XME
Location: Los Jirons
Exposure: 320 min
L (1x1): 15x10 min
R (2x2): 8x10min
G (2x2): 7x10min
B (2x2): 6x10min
Copyright: Maarten Vaneechoven

Night Sky

- Part of our natural environment
- Part of the natural landscape
- Part of our heritage! Worth to protect.
- Universal Declaration of Human Rights of Future Generations:

persons belonging to future generations have the right to an uncontaminated and undamaged Earth, with untainted skies, and are entitled to enjoy these as the basis of human history of culture and social bonds making each generation and individual a member of one human family

Techniques available to solve problem

- Light only there where needed
 - Is that facility needed to be lighten?
 - Is only the facility aimed to be lighten, lighted?
- Light only when needed
- Not more light then the amount needed
- The right color of light.

Our job is

Changing the market



Setup of the meeting



Setup the meeting

- Discussion time at the end
- Introduction of a subject
- Feedback welcome!
- Suggestions welcome!
- In NetViewer meeting:
 - Ask it via chat to participate



A lot of European research ongoing

- Verlust der nacht
- Impact of color of light on environment
- Impact of light on bats
- Impact of light pollution on fish
- Slovenia ...
- ...

International DarkSky Association



International Committee

- Make IDA more international organisation
- Make IDA more interesting for potential members all over the world
- Committee members of all continents
- European members: Martin Morgan-Taylor (Chair), Andreas Haenel, Friedel Pas

IDA in Europe



IDA Europe Topics

- IDA Membership
- European Organization
- EN-13201
- Other things to discuss?



IDA Membership

In Europe



Critical mass is needed

- IDA Europe membership is 129.
 - Not enough to impress EU
 - Not enough to show we defend an opinion off EU citizens.



IDA Europe Membership

– Belgium:	20	–Romania:	3
– United Kingdom:	15	–Slovenia	2
– Italy:	13	–Denmark:	2
– Austria	7	–Slovakia	2
– France:	7	–Ireland:	2
– Hungary:	6	–Norway:	2
– Germany:	6	–Sweden:	2
– Greece:	6	–Croatia	1
– Netherlands:	5	–Iceland:	1
– Czech Republic:	4	–Luxembourg:	1
– Spain:	4	–Switzerland:	1
		–Turkey:	1



IDA Europe Membership

- European symposium
 - Cheaper for members
 - Opportunity to become member
- Affiliates, Sections, Organizational members:
 - May offer IDA membership in future at reduced price!
 - Local organization can take part of the administration
 - Local organization can do part of distribution of newsletter and welcome packages



IDA Europe Membership

- Affiliates, Sections, Organizational members:
 - IDA membership can become option of their membership.
 - Can be included in their membership
 - Can tell that their members get reduction because they are their member



IDA Europe Membership

- Need membership of associations!
 - Vereniging Voor Sterrenkunde vzw (B)
 - Preventie Lichthinder vzw (B)
 - ANPCEN (F)
 - Astronomical association Hungary
 - Hungary Lighting Association
 - ESO
 - EurAstro



!Special Offer!

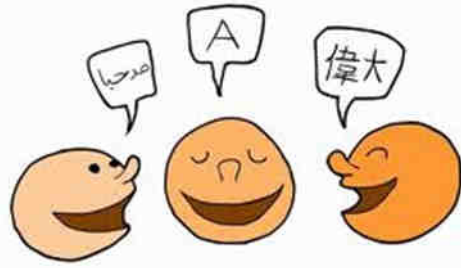
- Applicable to:
 - Participants on 11th European Symposium for Protection of the Night Sky
- Offer:
 - Fill in IDA membership subscription form
 - 25 euro in place of 50 dollar



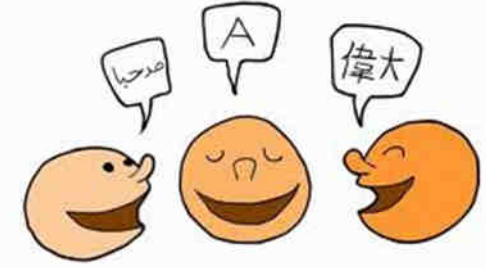
European Account

- Can Pay in €
- No extra cost in EuroZone
- Money stay in Europe for European activities
- IBAN: BE08 7340 2146 6513
- BIC: KREDBEBB





Languages

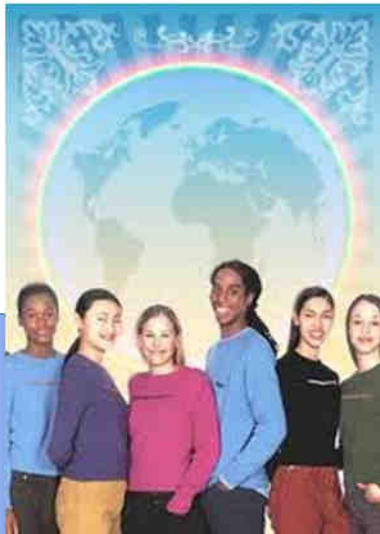


- Bulk of IDA material only available in English
 - Barrier for participation outside the USA.
- Translate to different languages by university students (Partly done in French and Chinese)
- Local Liaison Officers
 - Listed in contact information on the IDA website.



Cultural

- Some messages or ideas can not be transferred between countries or regions.
 - Difficult to keep the underlying message consistent
- Local Liaison Officers can help here also.



IDA Europe Website

- www.darksky.eu
- Initially reference to the IDA website.
- Goal is to add more European specific information.
- Information symposiums
(www.darksky.eu/symposiumyyyy)
- Multi-language.



IDA Europe International non-profit

- Currently:
 - Group of sections and affiliations
 - Individual members
 - European Liaison Officer
 - USA based organization
 - Not structured
 - No speaking partner for EU



IDA Europe International non-profit

- New Structure:
 - International non-profit organization to Belgium law
 - Reference in By-Laws to IDA
 - Collaboration contract with IDA
 - European members in both



IDA Europe International non-profit

- New Structure:
 - European General Meeting
 - Representatives from all organizations/countries
 - European Board of Directors
 - AGM together with symposium



IDA Europe International non-profit

- To be done:
 - Find people that want to engage them in this organization
 - Finalize by-laws
 - Work out collaboration contract
 - Foundation meeting
 - Go to notary.



IDA Europe International non-profit

- By laws under review
 - Can get a copy here or by request of e-mail
 - Can further discuss over e-mail
 - Can send support by signed letter for establish organisation.



By-laws proposal

- Mostly legal necessary obligated stuff
- Membership of General meeting
 - Formers
 - IDA BOD
 - Chapters and Affiliates 1 person / 10 IDA members



By-laws proposal

- Authorities of General meeting
 - Changing of the by-laws.
 - Nominating and deposing of the members of the board of directors.
 - Nominating and deposing of the commissioners and auditor and defining their salary.
 - The discharge of the board of directors and commissioners.
 - The approval of the budget and financial report.
 - The dissolution of the association.
 - The exclusion of a member.
 - The conversion of the association in a company with a social eye mark.
 - The approval of the functioning report of the past period and the annual programmed of the current period established by the Board of Directors.
 - Defining of the Internal Code with exception of the period between foundation of the association and the first general meeting.
 - The approval of work and results of committees or study groups.

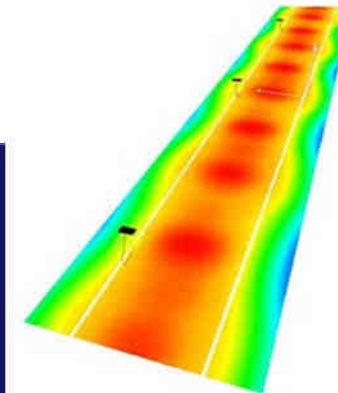


EN-13201

- Norms for road lighting in Europe
 - 1: road classes and lighting classes
 - 2: performance requirements
 - 3: performance calculations
 - 4: methods measuring lighting performance
- Is now under evaluation
- Countries asking things to change.

EN-13201

- Increase the TI to the old values
 - Now: 10% and 15%
 - Before: 15% and 20%
 - Will cause much more glare.
 - Poles can be placed at higher distances ($> 5 \times$ height)
 - Think this result in lower energy cost.



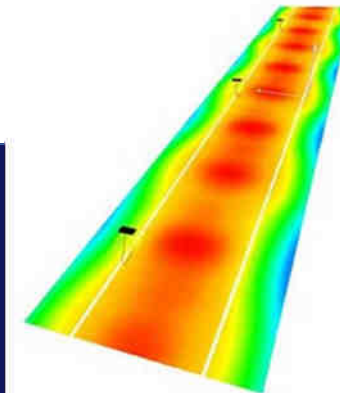
EN-13201

- Lower lighting class allowed when using white light.

		Luminance concept (road recognition)					Illuminance concept (persons & vehicles recognition)			
Traffictype	situation	EN-13201	Cd/m ²	U _o	U _i	T _i	EN-13201	E _{avg} lx	U _{min}	E _{min} lx
Highways	Fast & intense	ME1	2	0,4	0,7	10				
	Norm. velocity	ME2	1,5	0,4	0,7	10				
	< traffic&rain	ME3a	1	0,4	0,7	15				
	Low traffic	ME4a	0,75	0,4	0,6	15				
Mixed traffic	Busy Traffic	ME2	1,5	0,4	0,7	10	CE2	20	0,4	
	Normal Traffic	ME3a	1	0,4	0,7	15	CE3	15	0,4	
	Low Traffic	ME4a	0,75	0,4	0,6	15	CE4	10	0,4	
Slow traffic	High requir.						S2	10		3
	Normal requir.						S4	5		1
	Slow requir.						S6	2		0,6

EN-13201

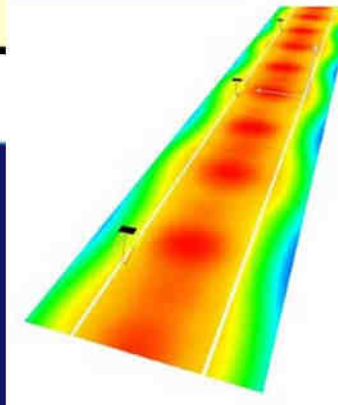
- What should we like to change at part 1
 - The road types like defined in EN-13201 need to be defined with the number of traffic per hour place of per day. This to create the possibility to have other lighting requirements based on the traffic intensity of that time.



EN-13201

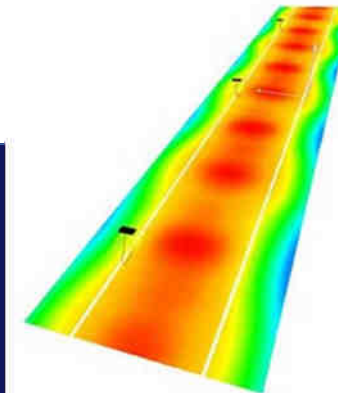
- Part 5: Energy efficiency
 - SLEEC

Label	SE W/lux/m2	SL W/(Cd/m2)/m2
A	0,01 0,005 – 0,014	0,15
B	0,02 0,015 – 0,024	0,3
C	0,03 etc.	0,45
D	0,04	0,6
E	0,05	0,75
F	0,06	0,9
G	0,07	1,05



EN-13201

- Negotiation is done by represents of lighting organizations of member states
 - Local lighting organizations have shadow committees
- We have to influence them!!



European Awareness Event

- Increasing awareness of general public
- Increasing awareness of governments
- Increasing awareness of involved parties
- Can generate huge press attention on LP



European Awareness Event

- Existing national awareness events can be included.
- Important aspects:
 - Need to be open for public participation.
 - Need to be sexy for the press.
- Nice to have:
 - Involve other parties like environmental associations, local governments, culture associations...



Other things to discuss?



Thank you!

- Tireless engagement for Dark Skies
- Arising awareness
- Increasing awareness on European level
- To help to protect:
 - The environment
 - Human health
 - World heritage of a starry sky
- Helping realize:
 - Better and more intelligent lighting
 - Reducing energy consumption
 - Increasing visibility
 - Increase safety.



Help is Available

- International Dark-Sky Association
- Website: [*www.darksky.org\(eu\)*](http://www.darksky.org(eu))
- Hundreds of Information Sheets
- Slides, Videos, Posters

europe@darksky.org

skype: darkskyprotector

GSM: +32-474-501795

