

Challenges for the Future

11th European Symposium for the Protection of the Night Sky



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Challenges

- Raising Awareness
- Promote Essential Research
- Legislation
- Monitor Progress
- Dark Sky Standards
- Dark Sky Preservation



Raising Awareness

- Astronomy Community
- Environmental Movement
- Energy Conservation Groups
- Governments
- General Public



Promote Essential Research

- Public Safety
- Roadway Lighting Design
- Lighting Alternatives
- Impact of Blue Spectrum Light
- Circadian Disruption
- LAN/Human Health

Earth at Night
More information available at:
<http://antwrp.gsfc.nasa.gov/apod/ap001127.html>

Astronomy Picture of the Day
2000 November 27
<http://antwrp.gsfc.nasa.gov/apod/astropix.html>



Legislation

- Lighting Ordinances
 - MLO (North America)
- National Laws
 - Night Sky Protection
 - Energy Conservation
 - Environmental

Monitor Progress

- Night Sky Brightness Monitor
 - 3 Years in Development
 - Extremely Accurate
 - First 25 installed in 2011
- NSBM Phase Two
 - Mass Deployment
 - Enhanced Website
 - Include SQM & Other Devices
 - Develop Data Interchange Standards



Dark Sky Standards

- Model Lighting Ordinance
 - Develop International Equivalents
 - Develop Modules (Signs, Sports, Etc)

Dark Sky Standards

- IDA Approved
- Fixture Seal of Approval
 - Enhanced Website
 - Search Feature
 - Energy Efficiency
 - Spectral Power Density

Dark Sky Standards

- IDA Approved
- Installation Seal of Approval
 - Two Separate Programs
 - Recreation Fields
 - Area Lighting
 - Minimize Offsite Impact
 - Maximize Energy Efficiency
 - Minimize Glare
 - New Night Meter

Dark Sky Standards

Installation Seal of Approval

- New Night Meter
- 3 Light Meters in 1
- Develop Glare Metric
- Recreation Fields
- Pilot Program in 2011
- 50 Fields



Dark Sky Preservation

- International Dark Sky Places (IDSP)
 - 15 Locations Certified To Date
 - European Parks Expanding Rapidly
 - New Development Fund Program

Thank You Questions?



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