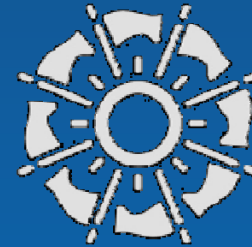


The International Year of Light and Light-based Technologies 2015



INTERNATIONAL
YEAR OF LIGHT
2015

Health Communications Economy Environment Social



Background

Many international partners brought the proposal to the UN headquarters in New York in May 2013



Resolution was adopted by UN General Assembly on 20 Dec 2013

Planning underway, website is now the main source of information

www.light2015.org

2015 INTERNATIONAL YEAR OF LIGHT AND LIGHT-BASED TECHNOLOGIES

Follow Us



SEARCH WEBSITE



United Nations
Educational, Scientific and
Cultural Organization



International
Year of Light
2015

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WHY LIGHT
MATTERS

LEARN ABOUT
LIGHT

HANDS ON
INVOLVEMENT

COSMIC
LIGHT

LIGHT FOR
DEVELOPMENT

SCIENCE
STORIES



Opening Ceremony
- 19-20 January
2015

Women In Science

Study After Sunset

IYL2015 Photo
Contest

LEARN ABOUT
IYL2015 & UNESCO

NATIONAL
CONTACT POINTS

RESOURCES TO
GET ORGANISED

EVENT CALENDAR

- Aug 12. 8th International Conference on Photonics and Applications
Da Nang City, Vietnam
- Aug 17. SPIE Optics & Photonics
San Diego, United States
- Sep 1. 2nd International Symposium on Optics and its Applications
Yerevan-Ashtarak, Armenia

Founding
Partners



Endorsed
by



Background

IAU (International Astronomical Union)

ICSU (The International Council for Science)

ISPRS (The International Society for Photogrammetry and Remote Sensing)

ISSC (International Social Science Council)

IUHPS/DHST (International Union of History and Philosophy of Science/
Division of History of Science and Technology)

IUPAB (The International Union for Pure and Applied Biophysics)

IUPAP (The International Union of Pure and Applied Physics)

IUTAM (The International Union of Theoretical and Applied Mechanics)

URSI (International Union of Radio Science)

ICO (The International Commission for Optics)

Background

 INTERNATIONAL ASTRONOMICAL UNION

Home | About IAU | Member Directory | Site Map | Contact Us | Login

News Science Publications Administration Education IAU for the Public Astronomy for Development International Year of Light

Home / International Year of Light

International Year of Light


INTERNATIONAL
YEAR OF LIGHT
2015


COSMIC
LIGHT



On 20 December 2013, The United Nations (UN) General Assembly 68th Session proclaimed 2015 as the [International Year of Light and Light-based Technologies \(IYL 2015\)](#). (Related press release can be downloaded on this [in this link](#) (zip format, 145 KB))

This International Year has been the initiative of a large consortium of scientific bodies together with UNESCO, and will bring together many different stakeholders including scientific societies and unions, educational institutions, technology platforms, non-profit organizations and private sector partners.

Search

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Follow the IAU on social media

IAU General Assembly
Honolulu, 3-14 August 2015

IAU e-Newsletter
Volume 2014 n° 4

Subscribe to the e-Newsletter

Discuss the IAU Commission
reform (Members only)

CAPJournal issue 16 now
available



The UN has asked us to ...

Promote photonics for improved quality of life

Explain photonics as an economic driver

Show photonics is a solution to global challenges

Promote science education and careers worldwide

Have impact in all countries of the world

Potential is very broad



Origin of Life

Healthcare

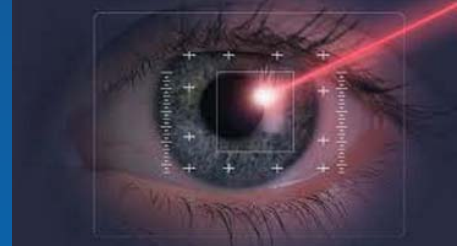


Communications & GPS

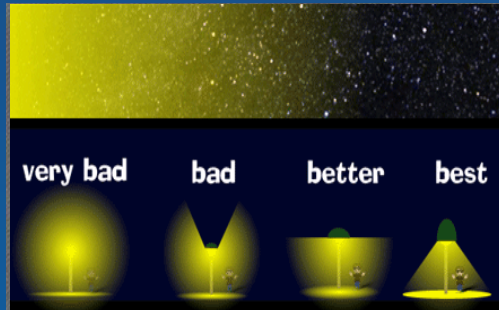


Optical Instruments

The Universe



Potential is very broad



Cultural Heritage

Education for All

Nature

Light Pollution



Art



Actions

Celebrating science successes within our community



Explaining photonics with outreach to the public



Promoting photonics to decision-makers

Support actions in the developing world



Anniversaries in 2015

1015: 1000 years of Arabic optics

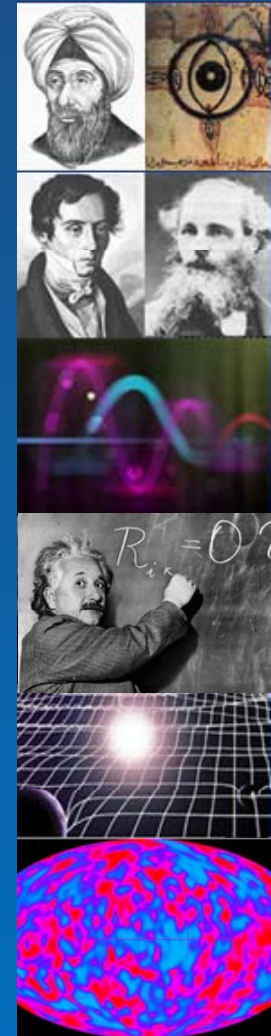
1815: 200 years of Fresnel's theory of diffraction

1865: 150 years since Maxwell's electrodynamics

1915: Einstein Centenary, General Relativity

1965: Cosmic Microwave Background,
Penzias & Wilson

Optical Fibre Technology, Charles Kao



Focus on Development

85% of the world's population
live in developing countries

Internet use by population

75% in Europe

16% in Africa

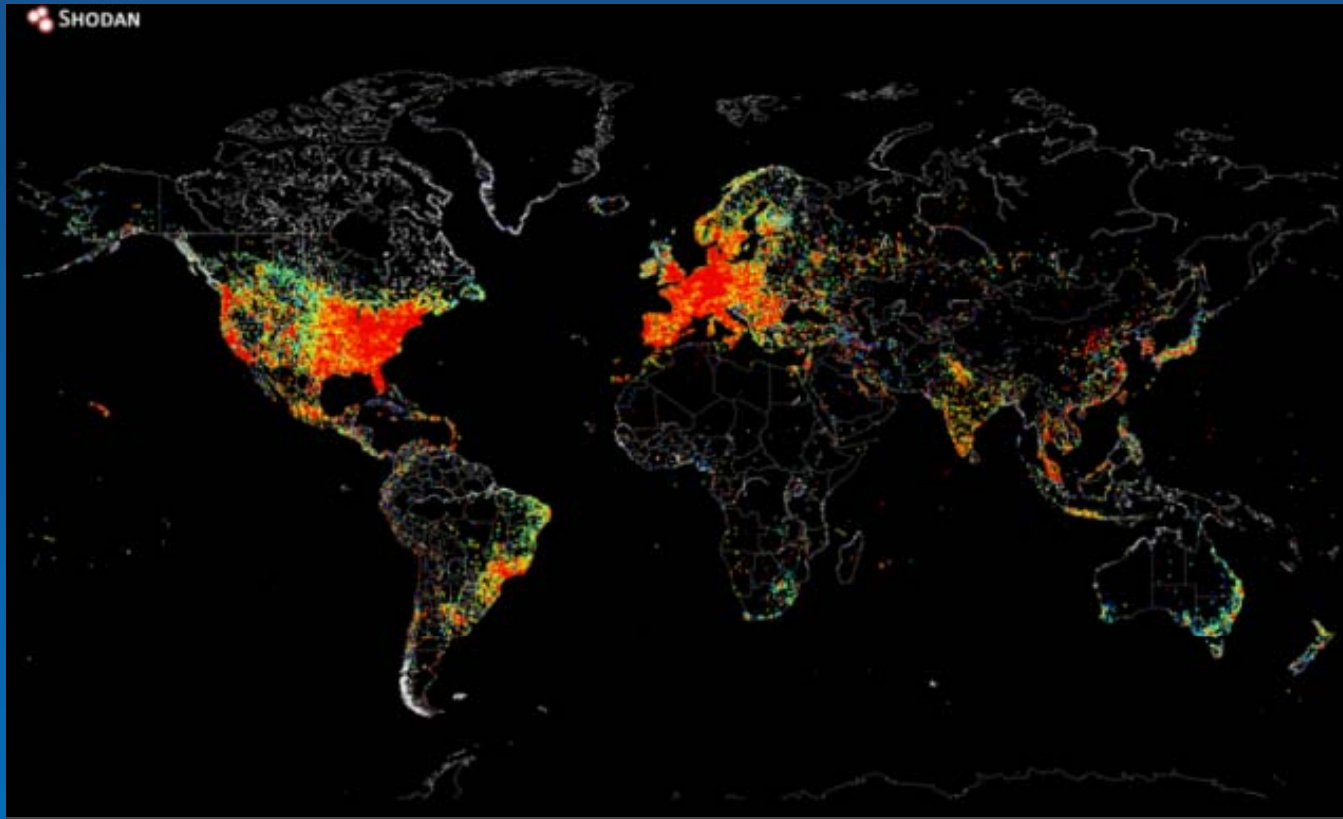
Study after Sunset is not
possible for 2 billion people

Billions need eyeglasses



Science for peace

Internet connected devices in the world



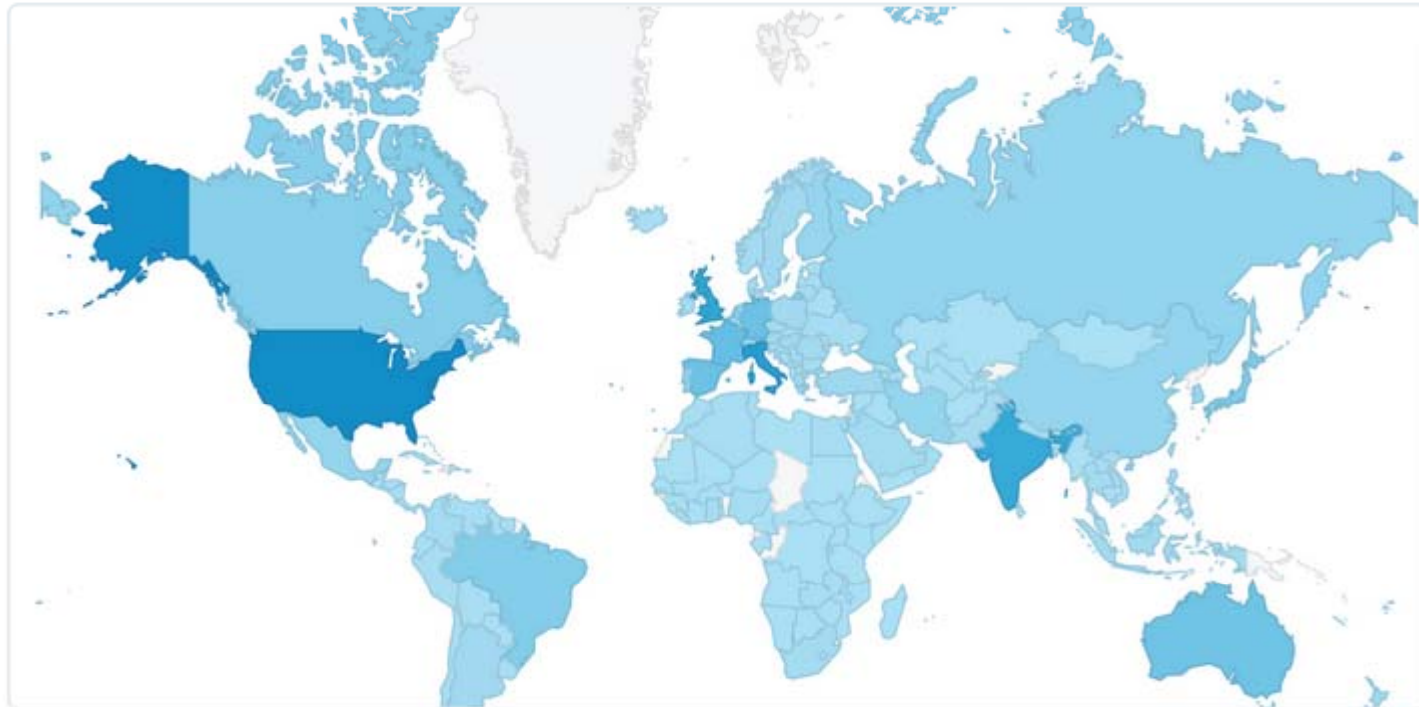
Scientists and social responsibility

National Interest



IYL2015 @IYL2015 · 20h

[#IYL2015](#) website statistics for December 2013 - 142702 views from 187 countries!!
Scale shows %age of total



National Interest

National Node Contact



We have 72 National Nodes which are organising local campaigns, activities and events

Funding

We receive NO funding from UNESCO

All international actions (e.g. Opening Ceremony, website, communications, seed funds for developing countries) must be self-funded.

We are very grateful already for the generous support from societies, industry, academic partners, and incredible volunteer enthusiasm

Actions

The secretariat at ICTP cannot proactively solicit event information from all partners in all countries of the world

It is up to organisers (you!) to submit events for tracking on the global calendar

Many exciting events are already taking place

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IYL2015 @IYL2015 · Jan 3

Wherever you are please tell us what you are doing for #IYL2015 Takes 1 minute! @helen_hm11

The image shows a screenshot of a web browser displaying the IYL2015 website on the left and a Google Forms calendar submission page on the right. The website has a header with '2015 INTERNATIONAL YEAR OF LIGHT AND LIGHT-BASED TECHNOLOGIES' and a navigation menu with 'HOME', 'ABOUT THE YEAR OF LIGHT', and 'EVENT PROGRAMME'. The 'EVENT PROGRAMME' section includes 'Event Programme', 'SUBMIT AN EVENT', 'CONTACT THE SECRETARY', and 'FILTER BY LOCATION'. A red circle highlights the 'Event Form' button, with a red arrow pointing to the Google Form. The Google Form is titled 'IYL Calendar' and contains instructions, a list of required fields, and input boxes for 'Title of Event', 'Category', and 'Start Date'.

2015 INTERNATIONAL YEAR OF LIGHT AND LIGHT-BASED TECHNOLOGIES

HOME ABOUT THE YEAR OF LIGHT EVENT PROGRAMME

Event Programme
The International Year of Light will be planned so that people of all ages and as a cross-cutting scientific discipline

SUBMIT AN EVENT

Event Form

CONTACT THE SECRETARY

Light2015.org
Email: Light2015@ictp.it

FILTER BY LOCATION

Clear Filter

IYL Calendar

Please use this form to send us the details of an event that you would like to include in the International Year of Light and Light-based Technologies Calendar. This form should be used for scheduled events only. Please note that the IYL Secretariat may edit some content if needed. Any changes to events already included in the calendar can be communicated to the Secretariat via email to Light2015@ictp.it.

* Required

Title of Event *

Category *

Start Date *

dd/mm/yyyy



[View more photos and videos](#)



Pinned Tweet



IYL2015 @IYL2015 · Dec 31

Happy International Year of Light & Light-based Technologies everyone! [#IYL2015](#)
[@UNESCO](#)



97



51



[View more photos and videos](#)

 LightYearAU @LightYearAU · Dec 31

RT @IYL2015: #IYL2015 logo projected on Sydney Harbor Bridge! Thanks to #SydNYE @LightYearAU and all Australia.





IYL2015 retweeted



IYL2015_NL @IYL2015_NL · Jan 4

International Year of Light 2015 in Washington State Convention Center
[#aas225](#) [#IYL2015](#) [@IYL2015](#)





IYL2015 @IYL2015 · 15 hrs

Dubai started [#IYL2015](#) with the largest LED-illuminated façade ever - thanks [@LischtschenkoO](#) for sending the video youtube.com/watch?v=JQNZFF...



YouTube



 IYL2015 retweeted



Rob Sparks @halfastro · Jan 4

Building @galileoscope in preparation for @IYL2015 at #aas225



 IYL2015 retweeted



Lux Helsinki @LuxHelsinki · Jan 4

Now it begins – the 7th [#luxhelsinki](#) festival! Today from 5 to 10 pm.
Welcome! Photo: Lux Helsinki 2014. [#iyl2015](#)



19



6



[View more photos and videos](#)

In France

← → ↻ 🏠 www.lumiere2015.fr 🔍 ☆



**2015
ANNÉE DE LA LUMIÈRE
EN
FRANCE**

QUI SOMMES-NOUS ?
CONTACTEZ-NOUS

📄 TÉLÉCHARGEZ LE GUIDE DE LABELLISATION

📅 CÉRÉMONIE DE LANCEMENT
INSCRIVEZ-VOUS !

📌 🔴 📺
CONNEXION

CÉRÉMONIE DE LANCEMENT

Grand Amphithéâtre de la Sorbonne
47 rue des Écoles, Paris 5^e

13h30 - 13h40 🕒 Allocutions d'ouverture

14h00 - 15h15

- **UNESCO et l'Année Internationale de la Lumière 2015**

Jean AUDOUZE - Président de la Commission nationale française pour l'UNESCO

- **International Year of Light 2015**

John DUDLEY - Chairman of the IYL 2015 Steering Committee

- **2015, Année de la Lumière en France**

Costel SUBRAN - Président du Comité National ALF 2015

- **Lumière et atomes**

Claude COHEN-TANNOUDJI - Prix Nobel - Académie des Sciences - CNRS

- **Détecter la lumière invisible pour comprendre l'univers et la vie**

Serge HAROCHE - Prix Nobel - Académie des Sciences - CNRS

- **À quelle distance sommes-nous « des lumières » ?**

Etienne KLEIN - Philosophe des Sciences - CEA

15h15 - 15h40 🕒 Pause

15h40 - 17h30

- **Lumière et obscurité dans la ville**

Roger NARBONI - Concepteur lumière

- **Photon unique, photons intriqués : les deux révolutions quantiques**

Alain ASPECT - Académie des Sciences - CNRS

- **La lumière extrême**

Gérard MOUROU - Président IZEST - École Polytechnique

- **Une moins obscure clarté ?**

José-Alain SAHEL - Directeur de l'Institut de la Vision

- **Écrire la nuit**

Hélène CIXOUS - Écrivain

- **La lumière, les qualités premières et les qualités secondes**

Claudine TIERCELIN - Philosophe - Collège de France

- **Peindre la lumière à la Renaissance, théorie et pratique de Léonard de Vinci**

Vincent DELIEUVIN - Conservateur - Musée du Louvre

IYL Opening Ceremony

19-20 January 2015, 1500 attendees, live webcast worldwide



Nobel laureates

Diplomats

Politicians

Scientists

Industry

MONDAY 19 JANUARY 2015

REGISTRATION 08:30 - 10:00

WELCOME COFFEE 08:30 - 10:00

MORNING SESSION 10:00 - 12:00

INAUGURATION 10:00 - 10:45

Ban Ki Moon (Video-Message)

Secretary-General, United Nations

Irina Bokova

Director-General, UNESCO

Flavia Schlegel

Assistant Director-General for Natural Sciences, UNESCO

Jane Naana Opoku-Agyemang

Minister for Education, Ghana

Enrique Cabrero

Director-General of CONACYT, Mexico

Susannah Gordon

Permanent Delegate of New Zealand to UNESCO

Vladimir E. Fortov

President of the Russian Academy of Sciences

Ziad Aldrees

Ambassador and Permanent Delegate of the Kingdom of Saudi Arabia to UNESCO

Patricio Hales (TBC)

Ambassador and Permanent Delegate of Chile to UNESCO

Rolf-Dieter Heuer

Director-General, CERN

Ligia Noronha

Director of the Division of Technology, Industry and Economics, UNEP

Günther Oettinger (TBC)

Commissioner for Digital Economy and Society, European Commission

OVERVIEW 10:45 - 11:00

John Dudley

Chairman of the IYL2015 Steering Committee, Prof. Dudley (France, NZ) will give an overview of worldwide plans for 2015.

LIGHT AND LIFE 11:00 - 11:45

Ahmed Zewail

Nobel laureate Professor Zewail (USA) will describe scientific and humanitarian revolutions influencing life on Earth.

WORLD OF IBN AL HAYTHAM 11:45

Launch of the "1001 Inventions and the World of Ibn Al-Haytham" campaign in Hall Segur.

LUNCH BREAK 12:00 - 14:00

AFTERNOON SESSION 14:00 - 18:00

ENERGY AND CLIMATE CHANGE 14:00 - 14:40

Steven Chu

Nobel laureate Professor Chu (USA) will discuss how science, innovation and policy mitigate the risks of climate change.

MEET THE COMMUNITY 14:40 - 15:20

Eric Rondolat

CEO of Lighting Sector, Royal Philips (Netherlands)

Giorgio Anania

Vice-President, Photonics21 (Italy)

France Cordova

Director, National Science Foundation (USA)

Francis Allotey

African Physical Society & IUPAP Vice President (Ghana)

Zohra Ben Lakhdar

I'Oreal-UNESCO Prize Recipient for Africa 2005 (Tunisia)

Ana María Cetto

Member of WFC, Past Secretary-General of ICSU (Mexico)

Danielle Harper

International Association of Physics Students IAPS (UK)

Thierry Montmerle

International Astronomical Union IAU, Paris (France)

LIGHTING THE FUTURE 15:20 - 16:10

Ann Webb

President of CIE (UK)

Gustavo Avilés

Lightteam (Mexico)

Harry Verhaar

President of the GOGLA (Netherlands)

Sze-leung Cheung

IAU Outreach Coordinator (Hong Kong SAR, China)

Barbara Horton

President of IALD (USA)

COFFEE BREAK 16:10 - 16:40

HUMANITY AND CULTURE 16:40 - 18:00

Ngati Ranana

Cultural Performance (New Zealand)

Gianfranco Cardinal Ravasi

President of the Pontifical Council for Culture (Vatican)

Alessandro Farini

Professor at the University of Florence (Italy)

Charles Falco

Professor at the University of Arizona (USA)

Joshua Bell

Grammy Award Winner (USA), Violin Recital - Einstein's Light

COCKTAIL 18:00 - 20:00

LIGHT IS HERE 18:30

Kari Kola's light art installation will recreate the Aurora Borealis at UNESCO

TUESDAY 20 JANUARY 2015

REGISTRATION 08:30 - 09:00

MORNING SESSION 09:00 - 12:30

EINSTEIN, TIME AND LIGHT 09:00 - 09:45

William Phillips

Nobel laureate Professor Phillips (USA) will give an experimental lecture illustrating some of today's most exciting optical science.

LIGHT FOR DEVELOPMENT 09:45 - 10:15

Andrew Forbes

CSIR National Laser Centre (South Africa)

Yanne Chembo

ERC Starting Grant Laureate (Cameroon)

Thanh-Nga Tran

Vietnam Vascular Anomalies Center (Vietnam, USA)

Sudhanshu Sarronwala

Earth Hour, World Wide Fund for Nature (WWF)

COFFEE BREAK 10:15 - 10:45

LIGHT AND THE QUANTUM 10:45 - 11:30

Serge Haroche

Nobel laureate Professor Haroche (France) will explain how light reveals the quantum nature of physical reality.

LIGHT AT THE LIMITS 11:30 - 12:10

Gérard Mourou

École Polytechnique, University of Michigan, IZEST (France)

Norio Kaifu

President of the International Astronomical Union (Japan)

Caterina Biscari

ALBA Synchrotron and lightsources.org (Italy, Spain)

LUNCH BREAK 12:10 - 13:30

AFTERNOON SESSION 13:30 - 18:00

TECHNOLOGICAL INNOVATION 13:30 - 14:05

Zhores Alferov

Nobel laureate Professor Alferov (Russia) will discuss challenges in advanced technology and applications in areas such as solar energy.

SCIENCE FRONTIERS 14:05 - 15:35

Alain Aspect

UNESCO Niels Bohr Medal Laureate (France)

Brian Wilson

University Health Network Biophotonics (Canada)

Sune Svanberg

Past Chair of the Nobel Committee for Physics (Sweden)

LIGHT SOLUTIONS 16:05 - 16:35

Illac Diaz

Liter of Light and My Shelter Foundation (Philippines)

Martin Aufmuth

One Dollar Glasses (Germany)

Linda Wamune

Sunny Money and Solar Aid (Kenya)

SCIENCE POLICY 16:35 - 17:45

José Mariano Gago

Former Minister of Science, Technology and Innovation, Portugal

Khalil Rouhana

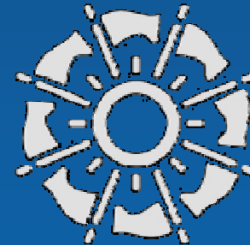
Directorate General Communications Networks, Content and Technology, European Commission

Maciej Nalecz

Director of the Division of Science Policy and Capacity Building, UNESCO

CLOSING REMARKS 17:45 - 18:00

The International Year of Light and Light-based Technologies 2015



INTERNATIONAL
YEAR OF LIGHT
2015

We will only get one chance

www.light2015.org