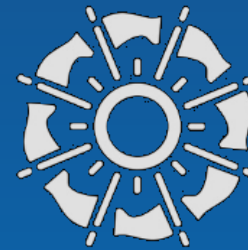


The International Year of Light and Light-based Technologies 2015



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

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

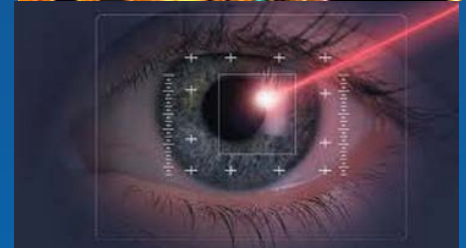


Communications & GPS

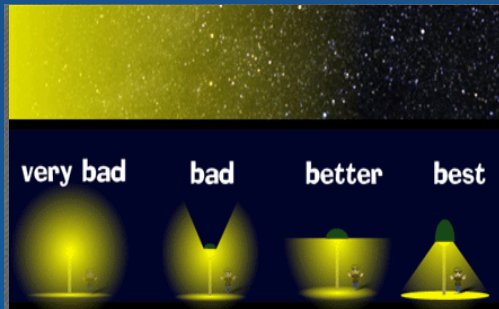


Optical Instruments

The Universe



Potential is very broad



Cultural Heritage



Education for All

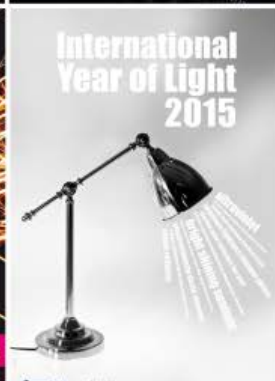
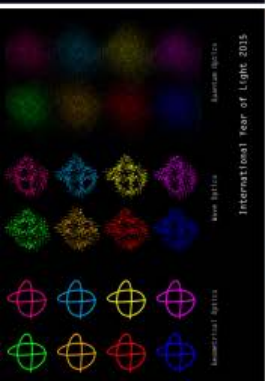
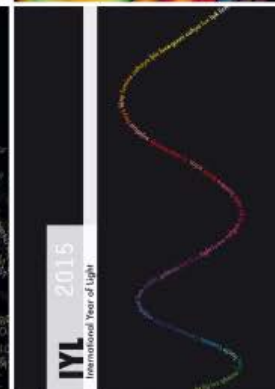
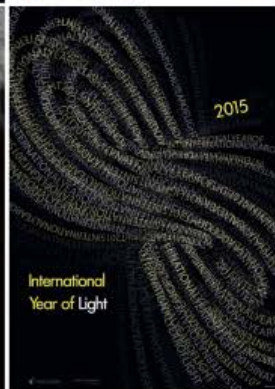
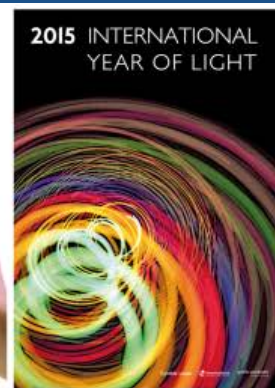
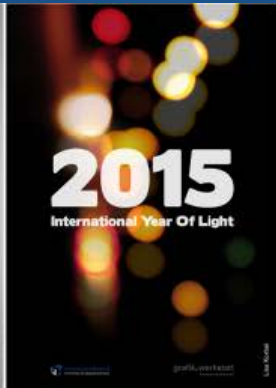


Nature

Light Pollution



Art



Actions

Celebrating photonics 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

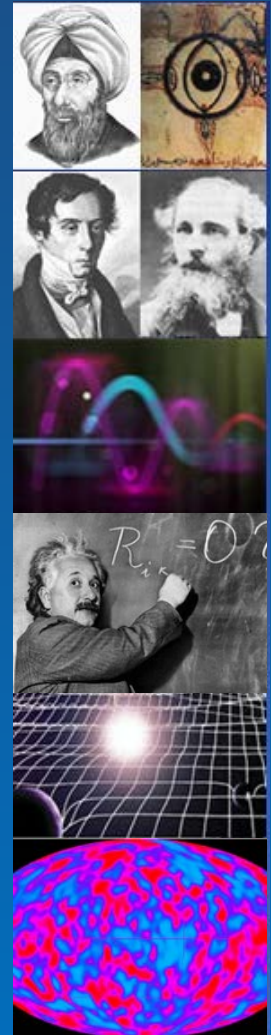
1815: 200 years of Fresnel's theory of diffraction

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

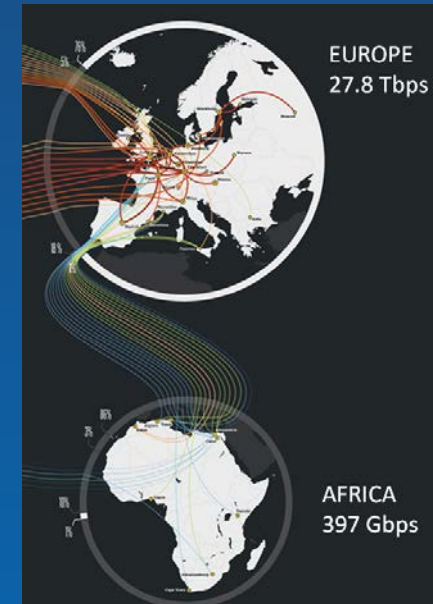
85% of the world's population live in developing countries

Internet use by population

75% in Europe

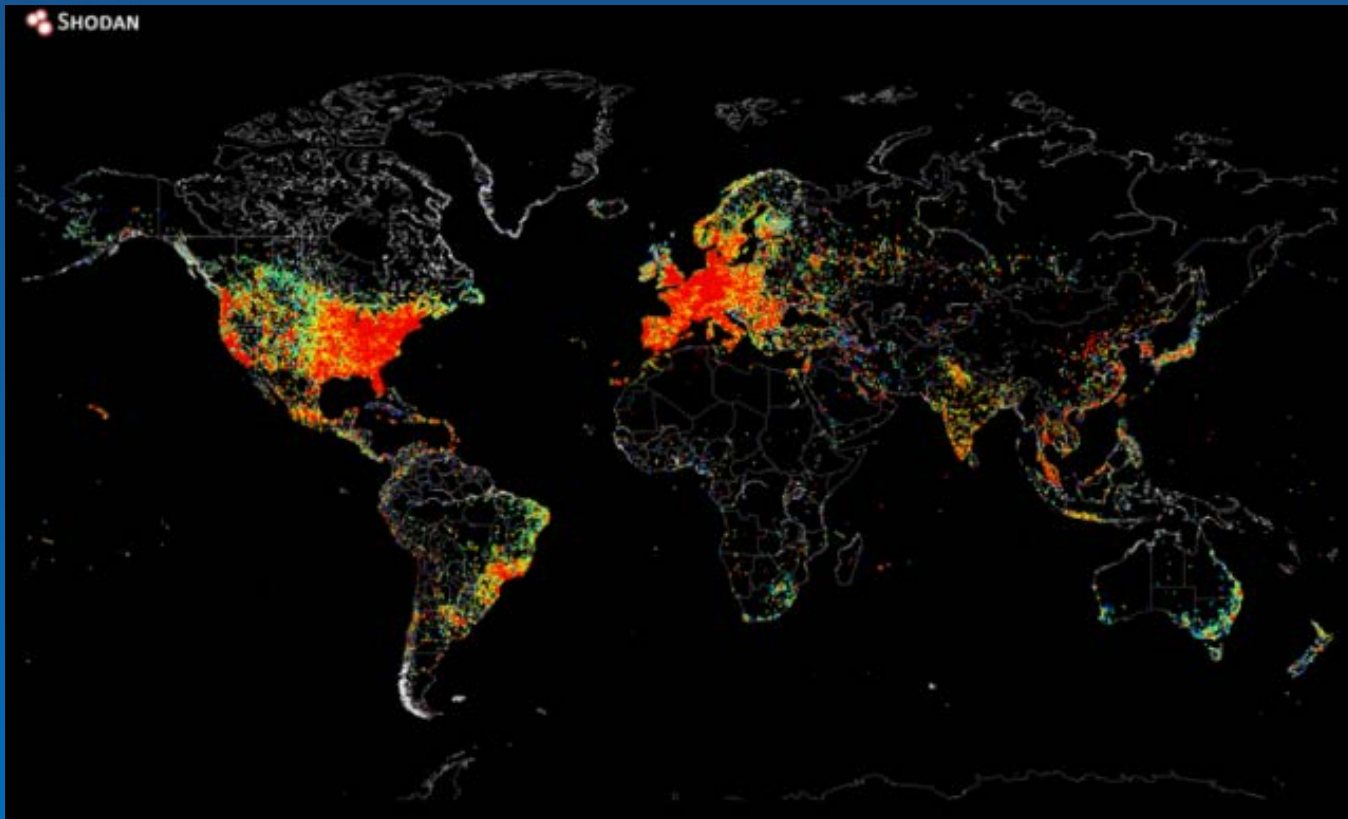
16% in Africa

Study after Sunset is not possible in many developing countries



Internet, education, peace

Internet connected devices in the world



Scientists and social responsibility

IYL Opening Ceremony

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



Nobel laureates

Diplomats

Politicians

Scientists

Industry

Programme and speakers to be announced soon

IYL Opening Ceremony

The Opening Ceremony will take place from January 19-20 2015 at UNESCO HQ in Paris in the iconic Fontenoy building very close to the Eiffel Tower.

The Opening Ceremony will introduce all the key themes of the year, and will aim to inspire activities and events worldwide for the following 12 months.

The programme will be opened by a message from the Secretary General of the United Nations and an address by the director of UNESCO.

An impressive range of speakers will then contribute over two days in a series of keynote lectures, symposia and round-tables covering areas of basic science in all areas of light, technology, development, aspects of light pollution and innovative lighting solutions in society, art & culture, the history of science, and science policy.

IYL Opening Ceremony

Keynote speakers include Nobel laureates Ahmed Zewail, Steven Chu, Zhores Alferov and Bill Phillips. Ahmed Zewail is a pioneer of femtoscience, Nobel laureate in Chemistry and a statesman in world affairs. In 2009, President Barack Obama appointed him to the Council of Advisors on S&T, and he became the first U.S. Science Envoy to the Middle East. He is also a member of the Scientific Advisory Board established by the United Nations Secretary-General.

Steven Chu won the Nobel Prize in Physics in 1997 and has also served as the 12th United States Secretary of Energy from 2009 to 2013. He is a vocal advocate for more research into renewable energy . Zhores Alferov is the inventor of the heterotransistor and the winner of 2000 Nobel Prize in Physics, Bill Phillips won the Nobel Prize in Physics in 1997 for his contributions to laser cooling and is known as an inspirational public lecturer, Serge Haroche won the Nobel Prize in Physics in 2012 for works on quantum optics and is a passionate advocate for basic research.

IYL Opening Ceremony

The programme also includes contributions by Gianfranco Cardinal Ravasi who is the President of the Pontifical Council for Culture at the Vatican; renowned Mexican architect Gustavo Avilés, UNESCO's Director of Science Policy and Capacity-Building Maciej Nalecz; international diplomats and political leaders; leading CEOs including the CEO of Royal Philips Lighting Eric Rondolat; representatives from NGOs as well as scientists who have applied light science in developing countries.

The expected audience of over 1200 will consist of members of the International Year of Light community from amongst the diplomatic, scientific and business sectors around the world. Attendance is by invitation only to key members of the IYL2015 scientific community as well as our partners and sponsors from around the world.



United Nations Educational, Scientific and Cultural Organization International Year of Light 2015

SEARCH WEBSITE



- HOME
- ABOUT THE YEAR OF LIGHT
- EVENT PROGRAMME
- WHY LIGHT MATTERS
- LEARN ABOUT LIGHT
- HANDS ON INVOLVEMENT
- COSMIC LIGHT
- LIGHT FOR DEVELOPMENT
- SCIENCE STORIES



 LEARN ABOUT IYL2015 & UNESCO	 NATIONAL CONTACT POINTS	 RESOURCES TO GET ORGANISED
---	------------------------------------	---------------------------------------

- Opening Ceremony - 19-20 January 2015
- Women In Science
- Study After Sunset
- IYL2015 Photo Contest

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



Themes to Explore

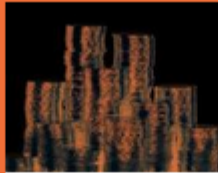
WHY LIGHT MATTERS



What is Photonics



Energy



Economic Impact



Lighting the Built Environment



Connecting the world

MORE

LEARN ABOUT LIGHT



Lasers



Lightsources of the world



Light in Life



Light in Nature



Art & Culture

MORE

HANDS-ON DEVELOPMENT



Smartphone Science



Science and Optics Kit



Light Images



LightTalks!

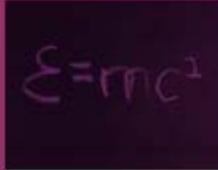


Kids and Optics

MORE

Themes to Explore

COSMIC LIGHT



Einstein Centenary



Dark Skies Awareness



A Universe of Images



The Big Bang



Galileoscope

MORE

LIGHT FOR DEVELOPMENT



Study after Sunset



Active Learning



UNESCO's actions



Astronomy for
Development



African Optics and
Photonics

MORE

SCIENCE STORIES



Women in Science



1000 Years of Arabic
Optics



Blog - The World of
Scientists



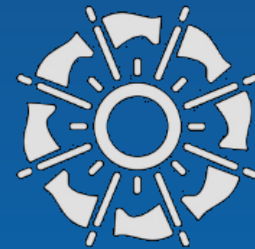
A Brief History of Light



Discoverers of Light

MORE

The International Year of Light and Light-based Technologies 2015



INTERNATIONAL
YEAR OF LIGHT
2015

We will only get one chance

www.light2015.org