



United Nations Educational, Scientific and Cultural Organization

> Organisation des Nations Unies pour l'éducation, la science et la culture

Organización de las Naciones Unidas para la Educación, la Ciencia y la Cultura

Организация Объединенных Наций по вопросам образования, науки и культуры

منظمة الأمم المتحدة للتربية والعلم والثقافة

> 联合国教育、· 科学及文化组织 .

DRAFT PROGRAMME

The Islamic Golden Age of Science for today's knowledge-based society: *The Ibn Al-Haytham example*

14-15 September 2015

UNESCO HQ, Room II, 7 Place de Fontenoy 75352 Paris, France





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DAY 1 | 14 SEPTEMBER 2015

MORNING SESSION 10:00 – 12:40

10:00-10:45 | Inaugural Session

08:00-10:00| Registration

Moderator: Flavia Schlegel, Assistant Director-General for Natural Sciences

Irina Bokova Director-General of UNESCO

John Dudley President of the Steering Committee of the IYL2015

H.E. Mr Mohamed Amr Ambassador, Chairperson of the Executive Board of

UNESCO

H.E. Mr Ziad Aldrees Ambassador and Permanent Delegate of the

Kingdom of Saudi Arabia to UNESCO

H.E. Sheikh Faisal

bin Qasim Al-Thani Founder and Chairman of the Al Faisal Without

Borders Foundation

Video presenting ancient manuscripts of scientists of the Islamic Golden Age - (Produced by the Qatar National Library)

10:45-12:40 | Session 1: History guiding the future, example of Ibn Al-

Haytham

Moderator: Maciej Nalecz, Director of the Division of Science Policy and

Capacity Building

Roshdi Rashed Ibn Al-Haytham Scientific Program

Director Emeritus of Research at the National Centre for Scientific Research (CNRS) (France)

Mohamad Mrayati Major Initiatives to revitalize S&T for development in

the Arab World

Senior Adviser on Science and Technology for Sustainable Development – UNDESA (Syria)

Josef van Ess Light and Vision before Ibn Al-Haytham. The

Perspective of early Islamic Theology (intellectual and historical context of Ibn Al-Haytham's ideas) Emeritus Professor of Islamic Studies and Semitic Languages at the University of Tübingen (Germany)

Gihan Kamel SESAME: The First Synchrotron Light-Source in the

Middle-East and Neighbouring Regions

Synchrotron-Light for Experimental Science and Applications in the Middle East (SESAME) (Egypt)

Opening of the Ibn Al-Haytham Exhibition (Hall Room I)

12:40-14:30 | Lunch break





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AFTERNOON SESSION 14:00 – 18:15

14:30-16:00 | Session 2: Light-based technologies for the future Moderator: John Dudley, President of the IYL Steering Committee

Harry Verhaar The relevance of LED lighting for sustainable

development

Head of Global Public & Government Affairs Philips

Lighting (Netherlands)

Eugene Arthurs The Global Economic Impact of Photonics

CEO of the International Society of Optics and

Photonics (SPIE) (USA)

Osman Benchikh Renewable Energy: Challenges and Perspectives

Chief of Section "Innovation and Capacity Building in Science and Engineering" at UNESCO (UNESCO

Headquarters)

16:00-16:30 | Coffee break

16:30-18:00 | Session 3: Education and Investment in Science & Technology Moderator: Osman Benchikh, Chief of Section "Innovation and Capacity Building in Science and Engineering"

AbdulAziz Alswailem Scientific Translation: A Tool from Shadow to Light

Vice President for Scientific Research Support, KACST

(Saudi Arabia)

Rolf Landua CERN and SESAME - beacons of light for education

Head of the Education Group at the European Organization for Nuclear Research (CERN)

Vasudevan Active Learning, Technology and STEM Education

Lakshminarayanan Professor of Physics and Electrical and Computer

Engineering, University of Waterloo (Canada)

Ibn Al-Haytham Working White Paper on Optics and Photonics

Group

18:00-18:15 | Session 4 (Grant scheme): The legacy of the Ibn Al-Haytham Conference





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DAY 2 | 15 SEPTEMBER 2015

08:30-08:55 | Registration

9:00-10:45 | Session 5: History of Optics 1

Moderator: Azzedine Boudrioua, Chair of Ibn Al-Haytham Working Group

Michel Paty Des raisons de la lumière aux lumières de la raison

(Remarques sur lumière et rationalité, d'Ibn Al-

Haytham à Albert Einstein).

Director Emeritus of Research at the French National Centre for Scientific Research (CNRS) (France)

Paul Pietquin Translation and studies of Ibn al Haytham optics in

Latin

Lecturer at the University of Liege, Editorial Secretary of

the Journal "Les Etudes Classiques" (Belgium)

Pierre Coullet The famous problem of Ibn al Havtham

Director Emeritus of Research at the French National Centre for Scientific Research (CNRS) (France)

Vincenzo De Risi Ibn al Haytham and the history of parallel postulate

Research Director, Max Planck Institute for the History

of Science (Germany)

J. V. Field Perspectiva et perspective à la Renaissance

Honorary Visiting Research Fellow School of History of Art and Screen Media, Birkbeck, University of London

(United Kingdom)

10:45-11:00 | Coffee Break

11:00-12:45 | Session 6: History of Optics 2

Moderator: Vaseduvan Lakshminarayanan, University of Waterloo

Hassan Tahiri Ibn Al-Haytham: Founder of Scientific Pluralism

(Portugal)

Razaullah Ansari The Scientific Method of Ibn al Haytham

National Commission for History of Science Projects

(India)

Mohamed Baghdadi A brief story of light

Former Director of Theoretical Physics, University

Rabat (Morocco)

Mohamed El-Gomati Modern electron optics and the search for more

light: the legacy of Ibn Al-Haytham

Chairman of the Foundation of Science, Technology

and Civilisation (United Kingdom)

Sameen Ahmed Khan Medieval Arab Achievements in Optics

Assistant Professor of Physics Engineering Department

Salalah College of Technology (Oman)

12:45-14:00 | Lunch break





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International Year of Light 2015

14:00-15:45 | Session 7: Impact of Light Science and Technology Moderator: Mourad Zghal, Chair of the Tunisian Optical Society

Charles Falco Al Haytham's Influence on the Optics and Culture of

Medieval Europe

Chair of Condensed Matter Physics (United States of

America)

Noureddine Melikechi Ibn al Haytham's: From Basra, Earth to the Gale

Crater, Mars

NASA Program Member (United States of America)

Bahaa Saleh Stretching the limits of optics & imaging: Science

and technology challenges

Dean of CREOL, the College of Optics and Photonics at the University of Central Florida (United States of

America)

Majed Chergui Atomic-scale time with new light sources

École Polytechnique Fédérale De Lausanne (EPFL)

(Switzerland)

15:45-16:00 | Coffee break

16:00-18:00 | Session 8: Optics and photonics in the Arab and Islamic world Moderator: Azzedine Boudrioua, Chair of Ibn Al-Haytham Working Group

Marie Abboud Optics and Photonics Research in Lebanon: Key

figures, Ways forward

Former Head of Physics Department, Saint Joseph University, UNESCO-L'OREAL "For Women In

Science" Award 2009 (Lebanon)

Nurdogan Can Tunable luminescence of rare earth doped some

yttrium-based phosphors

Professor at the Department of Physics, University of

Jazan (the Kingdom of Saudi Arabia)

Mohammad D. Al-Amri Overview of optics and photonic research in Saudi

Arabia

Associate Professor at the National Centre for Mathematics and Physics (NCMP) at the King Abdul-Aziz City for Science and Technology (the Kingdom of

Saudi Arabia)

Selçuk Aktürk Optics and Photonics in Turkey

Istanbul Technical University (Turkey)

Omar Lamrous Optics and Photonics in Algeria

Chair of the Algerian Optical and Photonics Society

(Algeria)

Mourad Zghal Ibn Al-Haytham: 1000 years of optics

Chair of the Tunisian Optical Society (Tunisia)

18:00-19:00 | Round table discussion and concluding remarks