



INTERNATIONAL COMMISSION FOR OPTICS  
*COMMISSION INTERNATIONALE d'OPTIQUE*

# 国際光学委員会 International Commission for Optics (ICO)

## 概要

2021年10月

日本学術会議



## オプティクス(光学)とフォトニクス(光工学)の分野 における世界的な代弁者の学術団体

[www.e-ico.org](http://www.e-ico.org)

### 歴史

1947年 設立  
1948年 第1回会議(オランダ)  
1950年 第2回会議(イギリス)  
以後ほぼ3年に1回、会議と総会を開催

### 目的

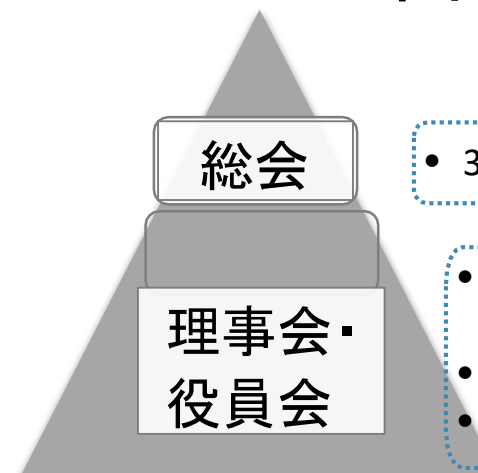
オプティクスとフォトニクスの分野における  
世界的な代弁者として、光科学分野の  
学術的発展と知識の普及に貢献

### メンバー

57  
会員国/地域  
(13の連携会員国  
/地域を含む)

7  
国際  
学術  
団体

### 運営組織



• 3年に1回開催

- メンバー国の委員から  
選挙で選出
- 毎年開催
- 運営方針・戦略・予算等策定

### 資金

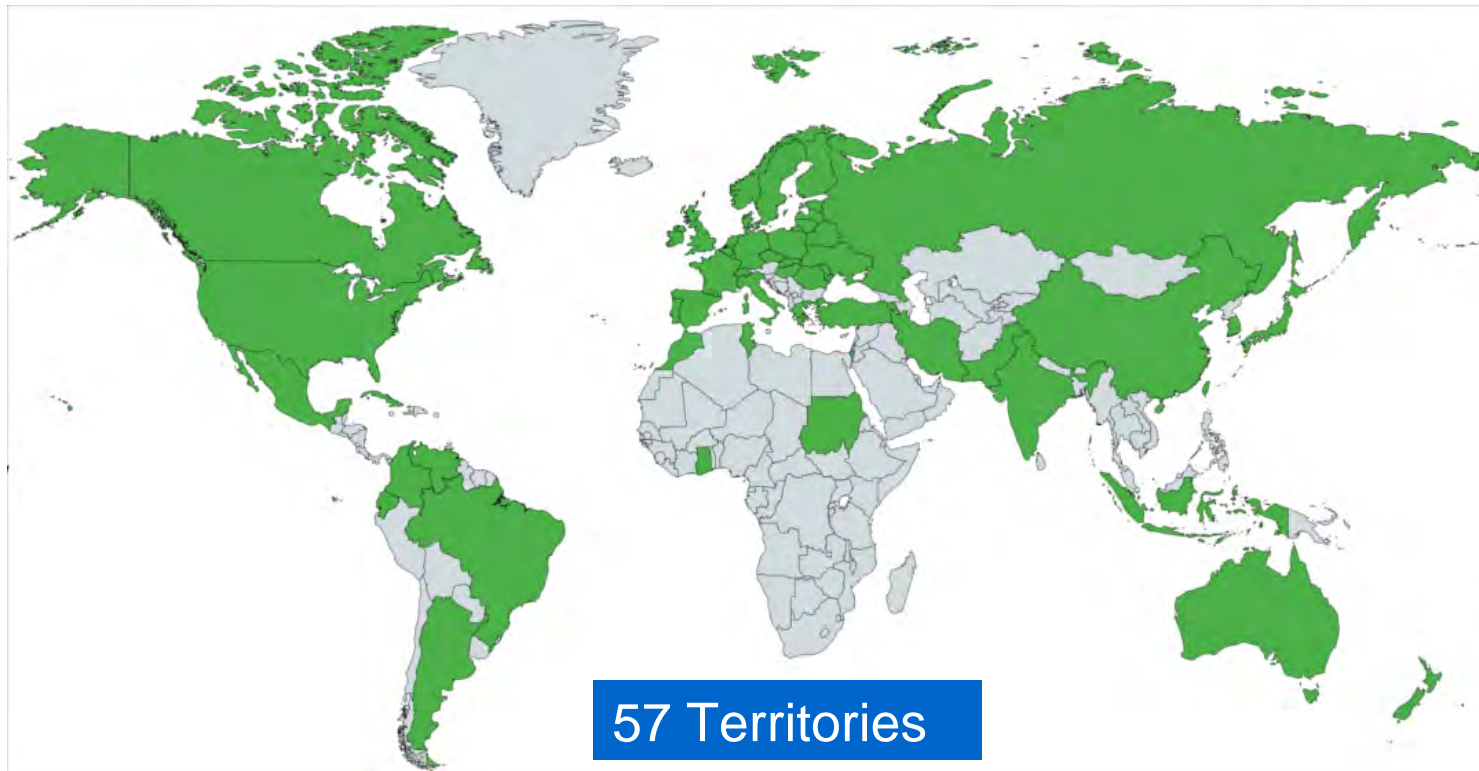
分担金 助成金 寄付金

# 国際学術団体としてのICO



INTERNATIONAL COMMISSION FOR OPTICS  
COMMISSION INTERNATIONALE d'OPTIQUE

- **Affiliated member of ISC (国際学術会議)**



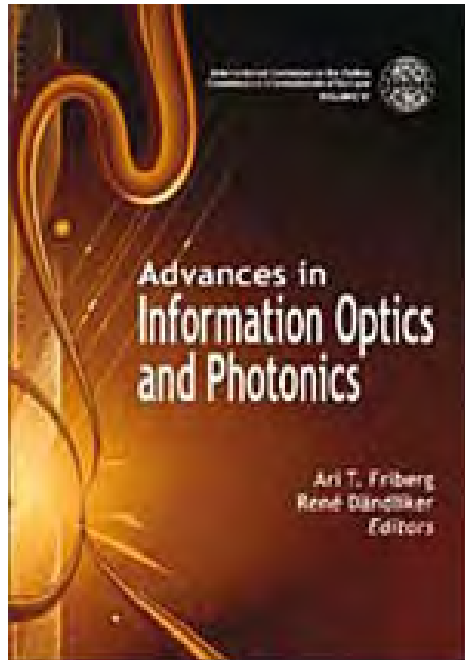
- **7 Societies:** OSA, SPIE, EOS, IEEE Photonics Society, OWLS (International Society on Optics within Life Sciences), LAM (African Laser, Atomic and Molecular Physics Network), RIAO

# ICOの活動(Publications)



INTERNATIONAL COMMISSION FOR OPTICS  
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## Trends in optics Triennial



## ICO Triennial Report



AUGUST 2021

## ICO Newsletter: Quarterly



### The history of how the laser came to be

Tony Siegman presents his personal view on the early development of the laser and in doing so inaugurates a series of articles for the upcoming International Year of the Laser.



The first ruby laser is disassembled.



### Why was the laser invented so late?

Mario Bertolotti, a professor at the University of Roma, La Sapienza, Italy, an author of a comprehensive book on the history of lasers continues the 2010 ICO series for the Year of the Laser



Mario Bertolotti is the author of 'A History of the Laser', published by Taylor & Francis.



### SPECIAL ISSUE: ICO GENERAL MEETING

"In the past four years, ICO has been facing and still faces a crucial phase".



Roberta D'Amico from Politecnico di Milano (Italy) is the current president of the ICO.

In 2018 in Delft, the Netherlands, we celebrated 70 years since ICO first General Congress, ICO-1, which was also held in Delft, in 1948. Since then, the ICO Congress has been held every three years. Proved to be an important and prestigious forum of scientific discussion for the Optics and Photonics community, with a wide and growing worldwide participation, it includes many scientists from developing countries. Participation of students and young scientists has been supported, and a careful policy to favor gender diversity has been set in place throughout the year.

The last ICO General Congress, ICO-24, was held in Tokyo in 2017, and it has seen the participation of about 1000 delegates from more than 20 countries. The Opening Ceremony was held in the presence of Their Majesties the Emperor and Empress of Japan, six prestigious guests, including the Mayor of Tokyo, and more than 850 registered attendees joined this event.

ICO-25 was supposed to be held in Dresden, Germany, in 2020, together with the 16th Conference of the International Society on Optics Within Life Sciences (OWLS-16), but it had to be postponed due to the pandemic related to COVID-19. Initially rescheduled from 13 to 17 September 2021, considering travel restrictions and difficulties still in place, it is now postponed from 5 to 9 September 2022. However, ICO General Assembly will take place online on 13<sup>th</sup> and 15<sup>th</sup> September 2021, together with elections for the next term (2021-2024).

Since its foundation, as our motto says, ICO has been and is "the place where the World of Optics meets". Actually, it aims more and more to be also the place where Optics meets the World, covering social, economic, religious and political barriers in the name of Science, fostering knowledge and technology transfer for the sake of innovation and human well-being.

ICO NEWSLETTER

ICO NEWSLETTER

Participants in the last ICO General Meeting held in Tokyo, Japan, in August 2017, in the presence of the emperors of Japan.



ICO NEWSLETTER

No. 128 JULY 2021

# ICOの活動(Awards)



INTERNATIONAL COMMISSION FOR OPTICS  
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## ICO Prize

**ICO Prize 2011**

INTERNATIONAL COMMISSION FOR OPTICS  
COMMISSION INTERNATIONALE D'OPTIQUE

Awarded to individuals who have made outstanding contributions to optics before turning 40 years of age.

Chair of the ICO Prize Committee: Prof. Min Gu  
Centre for Micro-Photonics, Faculty of Engineering and Industrial Sciences,  
Swinburne University of Technology, John Street Hawthorn, PO Box 218  
Hawthorn, Victoria 3122 Australia, phone +61 3 9214 8776, fax +61 3 9214 5435,  
e-mail: mgu@swin.edu.au

INSTRUCTIONS FOR APPLICATIONS:  
<http://www.ico-optics.org/awards.html>

**Deadline: 15 April 2011**

ICO Secretariat, Prof. Angela M. Guzman, Physics Department, Charles E. Schmidt College of Science,  
Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, USA,  
e-mail: angela.guzman@fau.edu

## IUPAP Young Scientist Prize in Optics

INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

IUPAP  
INTERNATIONAL COMMISSION FOR OPTICS  
COMMISSION INTERNATIONALE D'OPTIQUE

**IUPAP YOUNG SCIENTIST PRIZE  
IN  
OPTICS**

Chair of the Award Committee:  
Dr. Ari Friberg  
Helsinki University of Technology (TKK),  
Department of Engineering Physics,  
PO Box 5100, FIN-02015 HUT, Finland,  
Phone: +358 9 451 3157,  
Fax: +358 9 451 3153,  
E-mail: ari.friberg@tkk.fi

INSTRUCTIONS FOR APPLICATIONS:  
<http://www.ico-optics.org/awards.html>

**CALL 2011  
DEADLINE: 15 JULY 2011**

ICO Secretariat, Prof. Angela M. Guzman,  
Physics Department, Charles E. Schmidt College of Science,  
Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, USA,  
e-mail: angela.guzman@fau.edu

## ICO Galileo Galilei

"ICO the place where the World of Optics meets"

INTERNATIONAL COMMISSION FOR OPTICS  
COMMISSION INTERNATIONALE D'OPTIQUE

**ICO Galileo Galilei Award  
2011**

Awarded to researchers in the area of optics and photonics for outstanding contributions achieved under comparatively unfavourable circumstances

Chair of the Award Committee:  
Prof. Tomasz Szoplik  
University of Warsaw, Faculty of Physics  
02-093 Warsaw, Poland, fax: +48 22 56 46 882  
e-mail: t.szoplik@mimuw.edu.pl

INSTRUCTIONS FOR APPLICATIONS:  
<http://www.ico-optics.org/awards.html>

**Deadline: 15 April 2011**

ICO Secretariat, Prof. Angela M. Guzman, Physics Department, Charles E. Schmidt College of Science,  
Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, USA,  
e-mail: angela.guzman@fau.edu

## ICO/ICTP Gallieno Denardo

INTERNATIONAL COMMISSION FOR OPTICS  
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"ICO the place where the World of Optics meets"

ICTP  
The Abdus Salam  
International Centre for Theoretical Physics

**ICO/ICTP  
GALLIENO DENARDO Award**

Awarded to young researchers from developing countries, who are active in research in a developing country and have contributed to the promotion of research activities in optics in their own or another developing country.

Chair of the Award Committee: Prof. Amadou Wagui,  
Department of Physics, Faculty of Science and Technology,  
University Chedoke Area, Cote de Beaulieu,  
phone: +221 33 82968 80, fax: +221 33 824 63 18,  
e-mail: awagui@ictp.itp.academy.edu.eg

ICTP Representative: Prof. Jasash Namasla,  
ICTP, MB room 275, Strada Costiera 11, 34014 Trieste, Italy,  
e-mail: nmasla@ictp.it

INSTRUCTIONS FOR APPLICATIONS:  
<http://www.ico-optics.org/awards.html>

**CALL 2011  
Deadline: December 10,  
2010**

ICO Secretariat, Prof. Angela M. Guzman,  
Physics Department, Charles E. Schmidt College of Science,  
Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431, USA,  
e-mail: angela.guzman@fau.edu



- I. International Commission for Optics (ICO) の我が国のTerritory Committeeとして活動
- II. 我が国の光科学技術分野の研究者コミュニティの連携の推進
  - ・光科学技術調査企画小委員会設置、若手研究者交流の推進
  - ・国際光年、国際光デー記念シンポジウムの開催
  - ・ICO-24(2017、東京)の開催
- III. International Year of Light(国際光年、2015)、International Day of Light(国際光デー、2018～)に対して我が国の代表組織として活動



## 役員の就任:

荒川泰彦 東京大学教授 (21,22期会員、23期～連携会員)

2008-14 Vice President

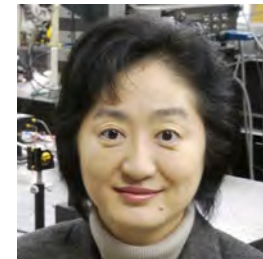
2014-17 President

2017-21 Past President



美濃島薫 電気通信大学教授 (21期～連携会員)

2021- Vice President



## ICOの開催:

ICO-24 (2017、東京) を日本学術会議主催として開催  
(参加者1,000名以上)

光の科学と技術の重要性は、太古の昔から人類の発展の歴史に密接にかかわる。特に1960年にレーザーが発明されて以降の学術の進歩への貢献は計り知れない。光の科学技術は、これからも学術の先端であり続ける。