We are the next generation.
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Introduction

This year marks the 20th anniversary of the Optica Foundation. The foundation has grown into a community of donors supporting beneficiaries through a broad suite of opportunities – from the Siegman School on Lasers, to numerous scholarships, the Couillaud Prize in Ultrafast Lasers, the Deutsch Fellowship in Biomedical Optics, travel grants, and prizes. We focus on support for students and early-career professionals and preparing them for careers in optics and photonics.

In celebration of the past twenty years, we are thrilled to recognize the first winners of the Optica Foundation Challenge (optica.org/FoundationChallenge) who each received US$100,000 prizes to support their proposals to use photonics and change the world (view the winners on pages 6-7). We also announced the Theodor W. Hänsch Prize in Quantum Optics, a US$20,000 prize for an early-career professional created in partnership with Menlo Systems, Thorlabs and Hamamatsu Photonics (optica.org/HaenschPrize). Our next report will feature the first winner who will be recognized at Quantum 2.0 in June 2023.

Throughout the following pages, you will see the many exceptional beneficiaries of our programs and the names of our donors. Thank you to all who have become a part of the foundation’s community. We look forward to your continued support.

Eric Mazur
Chair, Optica Foundation Board of Directors
2017 Optica President

Our Impact

- **US$2.8M** invested in training and support.
- **11,200+** beneficiaries impacted by our programs.
- **1,000** engaged as reviewers, committee members, speakers, mentors and donors.
- **US$0** spent on overhead and operating costs.*

*Labor and overhead is covered by Optica to ensure all donations go directly to programs and beneficiaries.
Optica Foundation Annual Report

Celebrating 20 Years

OPTICA FOUNDATION CHALLENGE

Launched in celebration of the foundation’s 20th anniversary, the Optica Foundation Challenge supports early-career members with the opportunity to leverage optics and photonics in driving new scientific discoveries and breakthroughs to transform our world. We received 93 proposals from individuals worldwide outlining how they would solve global challenges in three categories: environment, health and information. Ten winners received US$100,000 prizes to use as seed money as well mentoring and speaking opportunities.

Environment

Dismas Choge
University of Eldoret, Kenya

Ashim Dhakal
Phutung Research Institute, Nepal

Michela Florinda Picardi
ICFO - Institut de Ciències Fotòniques, Spain

Wanvisa Talataisong
Suranaree University of Technology, Thailand

Health

Guangwei Hu
Nanyang Technological University, Singapore

Xingchen Ji
Shanghai Jiao Tong University, China

Florian Willomitzer
Wyant College of Optical Sciences, University of Arizona, USA

Information

Chaoran Huang
Chinese University of Hong Kong, Hong Kong

Mark Lawrence
Washington University in St. Louis, USA

Mengjie Yu
University of Southern California, USA

Selection Committee

Alan E. Willner, University of Southern California, USA, Chair
Majid Ebrahim-Zadeh, ICFO – Institut de Ciències Fotòniques, Spain
Andrew Forbes, University of Witwatersrand, South Africa
Thomas G. Giallorenzi, US Naval Research Laboratory (retired), USA
Fumio Koyama, Tokyo Institute of Technology, Japan
Xiang Liu, Huawei Technologies, China
Miles John Padgett, University of Glasgow, UK
Jannick P. Rolland, University of Rochester, USA
Ulrike K. Woggon, Technische Universität Berlin, Germany

optica.org/FoundationChallenge
Prizes & Competitions

COUILLAUD PRIZE IN ULTRAFAST LASERS

The Bernard J. Couillaud Prize provides the opportunity for an early-career professional to pursue a compelling and innovative project that has the potential to make a meaningful and positive impact on the science and applications of ultrafast lasers.

Chiara Trovatello
Columbia University, USA

for the challenges and innovative solutions associated with her work in optical parametric oscillators and amplifiers.

Selection Committee
Marco Francesco Arrigoni, Coherent Corp., USA
Jens Biegert, ICFO – Institut de Ciencies Fotoniques, Spain
Clara Jody Saraceno, Ruhr Universität Bochum, Germany
Tobias Steinle, University of Stuttgart, Germany
Caterina Vezzi, CNR-IFN, Italy

optica.org/CouillaudPrize

KAMINOW OUTSTANDING EARLY-CAREER PROFESSIONAL PRIZE

Established in 2012, the Ivan P. Kaminow Outstanding Early-Career Professional Prize honors Kaminow for his many contributions to the field, as well as his dedication to mentoring and inspiring early-career researchers. Each year, one early-career member is selected to acknowledge their volunteer efforts with both Optica and the community. This fund is sponsored by the Kaminow family, Intel Corporation and personal donations from the community.

Sejeong Kim
University of Melbourne, Australia

for her dedication to the Nanophotonics Technical Group and youth outreach in Australia and South Korea.

Selection Committee
Alvaro Casas-Bedoya, University of Sydney, Australia
Amol Choudhary, Indian Institute of Technology Delhi, India
Adam J. Fleisher, National Institute of Standards & Technology, USA
Chun-Hung (Frank) Kuo, Mettler-Toledo, USA
Carlos Lopez-Mariscal, Underwater Photonics, Mexico
Antigone Marino, National Research Council, Italy
Yoshitomo Okawachi, Xscape Photonics Inc., USA
Mariia Pashchenko, FZU AV CR, Czech Republic
Samuel Felipe Serna Otávalo, Massachusetts Institute of Technology, USA
Ariene Smith, Moles, Inc., USA
Gabrielle M. Thomas, Mento Systems GmbH, Germany
Robert Ian Woodward, Toshiba Europe Ltd., UK

optica.org/KaminowPrize

Founded by

COHERENT
**CORNING PAPER COMPETITION**

Established in 2007, The Corning Outstanding Student Paper Competition recognizes innovation, research excellence and presentation abilities in optical communications. To be eligible for consideration, students must submit a paper to OFC and opt-in to the competition during the submissions process.

**Weihan Xu**  
*Shanghai Jiao Tong University, China*  
for his paper and presentation: “Fully Integrated Solid-State LiDAR Transmitter on a Multi-Layer Silicon-Nitride-on-Silicon Photonic Platform.”

optica.org/CorningStudentPaper

**MAIMAN PAPER COMPETITION**

The program recognizes student innovation, research excellence and presentation skills in the areas of laser technology and electro-optics. Finalists present their papers to a panel of meeting chairs virtually the week before the conference.

**Martin Zizlsperger**  
*University of Regensburg, Germany*  
for his paper and presentation: “Ultrafast Nanoscopy of an Excitonic Insulator-Metal Transition in Twisted Bilayer WSe₂.”

optica.org/MaimanCompetition

**LI INNOVATION PRIZES**

The Tingye Li Innovation Prizes are presented to an early-career professionals who have demonstrated innovative ideas in their accepted papers to OFC, the largest global conference and exhibition for optical communications and networking professionals, and CLEO, the premier conference for lasers and electro-optics.

**Hesham Sakr**  
*Lumenisity Limited, UK*  
for his paper “Hollow Core NANFs with Five Nested Tubes and Record Low Loss at 850, 1060 1300, and 1625nm.”

OFC: optica.org/LiPrizeOFC

**Armin Feist**  
*MPI for Multidisciplinary Sciences, Germany*  
for his paper “Electron-photon correlations induced at a photonic integrated microresonator.”

CLEO: optica.org/LiPrizeCLEO
SIMMONS & GORDON MEMORIAL SPEAKERSHIPS

Established in 2021, the Jane M. Simmons Memorial Speakership recognizes an invited speaker at OFC. This speakership was created to honor the legacy of Jane M. Simmons and her high-impact contributions to optical network architecture, design and planning. The prize has been endowed by the Family of Jane Simmons, and the honoree is selected by the OFC conference chairs.

optica.org/SimmonSpeakership

Manya Ghobadi
Massachusetts Institute of Technology, USA

for her contribution to AI systems and optically interconnected networks, in particular, utilizing newly emerging photonic technologies in data centers.

Ekkehard Peik
Physikalisch Technische Bundesanstalt, Germany

for his presentation “Optical Clocks with Trapped Ions.”

optica.org/GordonSpeakership

Established in 2014, the James P. Gordon Memorial Endowment provides funding for a speakership on Quantum information and Quantum Optics to a CLEO invited speaker. This program pays tribute to Jim’s numerous high-impact contributions to quantum electronics and photonics, including the demonstration of the maser. This speakership is endowed by the Gordon family and supporters of the James P. Gordon Memorial Fund, and the honoree is selected by the CLEO chairs.

optica.org/GordonSpeakership

Ambassadors & Fellowships

OPTICA AMBASSADORS

As emerging leaders in the optics and photonics community, Ambassadors will provide career advice, technical knowledge and mentorship with students and early-career professionals in the field by supporting professional development at meetings and engaging with their communities. New ambassadors are selected by previous classes.

optica.org/Ambassadors

Rodrigo da Silva Benevides
ETH Zurich, Switzerland

Barbara Buades
MEETOPTICS, Spain

Brandon Busciano
Ciena Corporation, USA

Alessandra Carmichael-Martins
Indiana University Bloomington, USA

Sangyeon Cho
Massachusetts General Hospital and Harvard Medical School, USA

Jhonatan Cordoba Ramirez
Universidad Federal de Minas Gerais (UFMG), Brazil

Faezeh Gholami
IBM, USA

Alexander Jantzen
Aquark Technologies, UK

Hyeon Jeong Lee
Zhejiang University, China

Richard Zeltner
Menlo Systems GmbH, Germany

Manya Ghobadi
Massachusetts Institute of Technology, USA

Ekkehard Peik
Physikalisch Technische Bundesanstalt, Germany

optica.org/Ambassadors
PIVOTING FELLOWSHIP

The Milton and Rosalind Chang Pivoting Fellowship provides unrestricted funding to talented, early-career optical scientists and engineers who believe their expertise can improve society outside of the lab.

Selection Committee
Thomas Baer, Stanford University, USA, Chair
Amy Eskilson, Inrad Optics, USA
Ursula Gibson, Clemson University, USA
Linda Smith, Ceres Technology Advisors, Inc., USA
Madison Rilling, Optonique, Canada
Araceli Venegas-Gomez, Qureca, Spain

optica.org/Pivoting

Victor Ochoa-Gutierrez
University of Glasgow, UK

to support his transition from research to business and for his dedication to making oximetry more accessible to diverse populations.

DEUTSCH FELLOWSHIP

Offered in partnership with the Massachusetts General Hospital (MGH) Wellman Center for Photomedicine, the Thomas F. Deutsch Fellowship specifically fosters interactions between researchers from diverse fields of science and medicine and supports post-doctoral investigators pursuing training in either basic or clinical research. This fellowship is endowed through donations from the Deutsch family, contributors from the optics and photonics community and a generous contribution from IPG Photonics.

Selection Committee
Maria Vinas-Pena, Consejo Sup Investigaciones Cientificas, Spain, Chair
Christina Schwarz, University of Tübingen, Germany
Giuliano Scarcelli, University of Maryland College Park, USA
Phaneendra Yalavarthy, Indian Institute of Science, India
Maciej Wojtkowski, Institute of Physical Chemistry, Poland
Mikhail Berezin, Washington University, USA

optica.org/Deutsch

in partnership with

Fernanda Viana Cabral
University of São Paulo, Brazil

for her proposal to develop a novel superhydrophobic technology for singlet oxygen delivery as a breakthrough in photodynamic therapy.
For its inaugural year, fifteen Black scientists received a US$7,500 scholarship. In addition to the funding, recipients gain access to our global network of mentors and the supporting donors.

**Selection Committee**
- Joshua Burrow, University of Dayton, USA
- RJ Doidge, Thorlabs, USA
- Michael Duncan, Optica, USA
- George Dwapanyin, University of St. Andrews, UK
- James Hilfiker, J.A. Woollam Inc., USA
- Paul Ikechukwu Iroegbu, Changqing University, China
- Yaseera Ismail, University of Kwa-Zulu Natal, South Africa
- Dikande Alain Moise, University of Buea, Cameroon
- A. Boh Ruffin, Corning Incorporated, USA
- Ramona Smith, OFS Optics, USA
- John Weaver, IPG Photonics, USA

**Founding Donors US$100,000+**
- Elsa Garmire & Robert H. Russell
- Meta
- Thorlabs

**Major Donors US$10,000+**
- Federico Capasso
- Corning Incorporated
- IPG Photonics Corporation
- J.A. Woollam Inc.
- Eric Mazur
- OFS Optics
- Synopsys
- James C. Wyant

For more information, please visit: [optica.org/AmplifyScholarship](http://optica.org/AmplifyScholarship)
OPTICA WOMEN SCHOLARS

The first class of Optica Women Scholars was recognized in 2022. Twenty exceptional young scholar received a US$10,000 scholarship. In addition to the funding, scholars gain access to our global network of mentors and the supporting donors.

Emma Abbey
University of Victoria, Canada

Dulce Maria Badia
University of Murcia, Spain

Apoorva Bisht
University of Arkansas, Fayetteville, USA

Jennifer Bragg
University of Arizona, USA

Klaudia Dilcher
University of Warsaw, Poland

Alice Drozdov
Univ. of Witswatersrand, South Africa

Ilgim Efeturk
Izmir Institute of Technology, Turkey

Mackenzie Essington
Western University, Canada

Ana Garrigues Navarro
Universitat de València, Spain

Anastasia Goulopoulos
University of Massachusetts Lowell, USA

Jaclyn John
University of Arizona, USA

Jodi Kreainer
University of Arizona, USA

Elena Moreno
University of Murcia, Spain

Maimuna Nagay
Multimedia University of Kenya, Kenya

Laikasri Nandivada
University of Waterloo, Canada

Natasha Nehra
University of Texas, Austin, USA

Isabella Pardo
University of Central Florida, USA

Yaoqi Tang
Shanghai Jiao Tong University, China

Trulani van der Heyde
University of Auckland, New Zealand

Maria José Villamarín
Universidad San Francisco de Quito, Ecuador

Selection Committee
Shanti Bhattacharya, Indian institute of Technology Madras, India
Lisa Bickford, Google, USA
Janet Fender, USA
Jessica Pastor, Coherent Corp., USA
Madison Rilling, Optonique, Canada
Lydia Sanmarti, ICG, Spain
Katharine Schmidtke, Meta, USA
Hui Sui, Corning Incorporated, USA
Araceli Venegas Gomez, Qureca, UK
Winston Way, Lumentum, USA
Frank Chang, Source Photonics, USA

Founding Donors US$100,000
Coherent Corp.
Corning Incorporated
Janet Fender & L. John Otten
Google
Innolight
Lumentum
Intel
Meta
Elizabeth Rogan
Source Photonics

Major Donors US$10,000+
Edmund Optics
Joseph W. and Hon Mai Goodman
Marvell Semiconductors Inc.
Optimax
Alice Sinclair
James C. Wyant

optica.org/WomenScholars
CORNING WOMEN SCHOLARSHIP

The Corning Women in Optical Fiber Communications Scholarship supports gender diversity in the industry. This scholarship is a merit-based prize recognizing outstanding women studying optical communications and networking. Three scholars are recognized annual with a US$3,000 scholarship and financial support to attend OFC.

Selection Committee
Aleksandra Boskovic, Corning Research & Development Corporation, USA
Chi-Wai Chow, National Yang Ming Chiao Tung University, Taiwan
Maria Vasilica Ionescu, Infinera Corporation, France
Ju Han Lee, University of Seoul, Republic of Korea
Anastasiia Vasylenkova, University College London, United Kingdom
Jun Shan Wey, Verizon Communications Inc., USA

optica.org/CorningScholarship

STOICHEFF SCHOLARSHIP

Established in 2011 with the Canadian Association of Physicists Foundation (CAPF), this program pays tribute to Boris P. Stoicheff. The scholarship is awarded to an undergraduate or graduate student who has demonstrated both research excellence and significant service the society or the physics community.

Kate Fenwick
University of Ottawa, Canada
2022 Optica Student Chapter President

optica.org/Stoicheff

In partnership with
Canadian Association of Physicists
Association canadienne des physiciens et physiciennes
Schools & Training Programs

SIEGMAN SCHOOL ON LASERS

The Siegman International School on Lasers completed its 8th cycle in Chęciny, Poland. We hosted 105 attendees (40% women) from 32 countries at this week-long event covering topics ranging from ultrafast lasers to machine learning to an intriguing talk titled “A gentle introduction to photonic quantum information.” The event was hosted at a unique conference center, the European Centre for Geological Education, owned by the University of Warsaw. It is located in the heart of an extinct quarry in the Holy Cross Mountains.

We awarded the Burton J. McMurtry Poster Prizes, a program created by Thomas Baer (2009 Optica President) and Robert Byer (1994 Optica President). McMurtry was Siegman’s first laser student.

The Zuegel Family Scholarships were also awarded to 10 students. Jon Zuegel, University of Rochester and his family, created a scholarship program for Siegman students after Zuegel hosted the school in 2019.

Founding Donor
IPG Photonics Corporation

optica.org/SiegmanSchool

SUBSEA OFC SCHOOL

The Subsea Optical Fiber Communications School, 10-16 July on the island of Backafallsbyn off of Sweden, successfully hosted 91+ people (attendees, speakers and industry representatives). This event featured lectures on optical transmission, cable powering, and network topologies from Google, Meta, Subcom, Alcatel Submarine Networks, NEC and others. We also hosted round table discussions on challenge areas and sessions with corporate representatives on career opportunities.

Founding Contributors
Google
SubOptic Foundation

Contributors
Meta
Ciena
Cisco
EXFO
Infinera
NMSWorks
Nokia
OFS Optics
Omantel
OMS Group
Sycomp
Telecom Egypt
TIS Sparkle

optica.org/SubseaOFC
CAREER ACCELERATOR

Career Accelerators focus on career paths and the professional and personal skills needed for success. We acquaint participants with the corporate world’s culture, language, and methodology as they plan their transition from academia to industry.

The 2022 Career Accelerator hosted 69 attendees from 17 countries. The five-day immersive program featured 16 speakers representing leading photonics companies sharing insights on topics such as finance and accounting, marketing and sales, strategic planning, negotiation skills and the role of the product line manager.

optica.org/CareerAccelerator

INNOVATION SCHOOL

We hosted our 6th Innovation School at Optica Headquarters from 12-16 June with 40 participants from 13 countries. The program, a week of product/solution development and customer/market research, resulted in 10 pitches. In addition to the immersive team activities to develop a company in four days, the attendees had the opportunity to meet and learn from experts representing leading industry companies such as Google, IonQ, Neurecence, Luminate, Lumentum and Thorlabs.

optica.org/InnovationSchool
Student Chapters

The Optica Foundation provides support to our 400+ Optica Student Chapters via grants for unique programs focused on professional development, education outreach, and diversity & inclusion. In 2022, US$75,000 in grants were awarded to chapters for these programs.

Some examples of the programs we supported included:

The UDM Messina Optica Chapter, University of Messina, Italy hosted the COSMOS Festival for 600 attendees. The festival brought together both the chapter and the public with optical experiments and other content to help show the importance of our field.

The Stellenbosch Laser Student Chapter, University of Stellenbosch, South Africa hosted a road trip to the Eastern cape to visit local schools and raise awareness about optics and photonics—reaching nearly 300 kids in grades 8 - 12.

The FJNU Optica Student Chapter, Fujian Normal University visited a local middle school and offered several classes in optics and photonics including both experiments to build interest in science and presentations on the possible impact of the university’s researchers.

The YSO Student Chapter and IPR Armenia Chapter, Yerevan State University and Institute for Physical Research, Armenia partnered to create a summer camp focused on laser printing bringing together high school and university students as well as local company representatives. They worked to solve challenges with laser printing and build awareness of the importance of photonics.

The University of Warsaw Optica Chapter, University of Warsaw, Poland, hosted OPTO 2022, a long-standing conference that brings together researchers in optics in the region for technical talks and professional development.

Additional Opportunities

The foundation also offers a variety of travel and publishing grants. Programs active in 2022 included:

The Incubic/Milton Change Travel Grants supported 16 students attending either CLEO or Frontiers in Optics (FiO).

The Robert S. Hilbert and the Jean Bennett Memorial Student Travel Grants provided needed assistance to five students attending FiO.

Administered by Optica Publishing Group, the S. R. Seshadri Publications Grant supported publishing fees for 9 researchers from six countries.

We offered Level Up Leadership, a new training program focused on leadership skills for early-career professionals. For the pilot program we hosted 30 ambassadors representing the 2016-2021 classes in Washington, DC.

In partnership with the Optical Interference Coatings (OIC) meeting, we created the H. Angus Macleod Student Prize to honor Macleod’s legacy and amplify his passion for supporting and mentoring students. Macleod was a dedicated contributor to OIC, having served in many roles since 1991, including member and chair of the Program Committee and a member of the Optical Interference Coatings Advisory Committee. The first and third place winner was: Saaxewer Diop, Aix Marseille University, France and the second place winner was Phillip Rumsby, Polytechnique Montréal, Canada.

optica.org/StudentChapters
2022 Award and Medal Winners

The Optica awards program recognizes and celebrates the field’s technical, research, education, business, leadership and service accomplishments. We encourage the community to consider nominating colleagues for these esteemed awards. The foundation manages the endowments for these recognitions.

optica.org/Awards

**ESTHER HOFFMAN BELLER MEDAL**
Julie Bentley
University of Rochester, USA
for her central role in shaping the optics education of countless undergraduate and graduate students.

**MICHAEL S. FELD BIOPHOTONICS AWARD**
Valentina Emiliani
Vision Institute, CNRS, France
for pioneering research on wavefront engineering in neurophotonics, which enabled the selective control of individual neurons in the intact brain using light and optogenetics, and initiated the era of all-optical brain control.

**MAX BORN AWARD**
Yuri Kivshar
Australian National University, Australia
for pioneering and ground-breaking research in nonlinear metamaterials and all-dielectric resonant metaphotonics that derives unique optical functionalities from electric and magnetic dipolar and multipolar Mie-type resonances underpinning new discoveries in nonlinear and topological nanophotonics.

**STEPHEN D. FANTONE DISTINGUISHED SERVICE AWARD**
Joseph A. Izatt
Duke University, USA
for over 25 years of outstanding service to the optics community and Optica in areas as diverse as publications, conferences, strategic planning, and the Optica Board of Directors.

**FREDERIC IYES MEDAL / JARUS W. QUINN PRIZE**
James C. Wyant
University of Arizona, College of Optical Sciences, USA
for pioneering contributions in advancing the science and technology of quantitative interferometric metrology, his leadership as an educator and entrepreneur, and his visionary service to the global optics and photonics community.

**JOSEPH FRAUNHOFER AWARD / ROBERT M. BURLEY PRIZE**
Aydogan Ozcan
University of California, Los Angeles, USA
for seminal optical engineering contributions to computational optical imaging, lensfree microscopy, holography and mobile optical sensing.

**JOSEPH W. GOODMAN BOOK WRITING AWARD**
Paul F. McManamon
Exciting Technology and University of Dayton, USA
for LiDAR Technologies and Systems

**PAUL F. FORMAN TEAM ENGINEERING EXCELLENCE AWARD**
Leica Microsystems EnFocus Intraoperative Optical Coherence Tomography Development Team
for developing an optically brilliant, latency-free intrasurgical optical coherence tomography microscope that fully integrates into the ophthalmic surgical workflow, allowing a surgeon to see more and do more to preserve patient sight.

**JOSEPH W. GOODMAN BOOK WRITING AWARD**
Paul F. McManamon
Exciting Technology and University of Dayton, USA
for LiDAR Technologies and Systems

**STEPHEN D. FANTONE DISTINGUISHED SERVICE AWARD**
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**FREDERIC IYES MEDAL / JARUS W. QUINN PRIZE**
James C. Wyant
University of Arizona, College of Optical Sciences, USA
for pioneering contributions in advancing the science and technology of quantitative interferometric metrology, his leadership as an educator and entrepreneur, and his visionary service to the global optics and photonics community.
NICK HOLONYAK, JR. AWARD
Marshall I. Nathan
IBM TJ Watson Research Center and
University of Minnesota, USA
for his pioneering work in creating GaAs diode lasers and inventive contributions to compound semiconductors and laser physics.

ROBERT E. HOPKINS LEADERSHIP AWARD
Andrea Armani
University of Southern California, USA
for leadership in promoting online platforms for disseminating science and educational programs, thereby reducing barriers for early-career researchers and increasing mentoring opportunities worldwide.

EDWIN H. LAND MEDAL
Shin-Tson Wu
University of Central Florida, USA
for contributions to novel displays and diffractive optics that led to commercial products and widespread applications, especially for augmented reality, virtual reality, and imaging devices.

ELLIS R. LIPPINCOTT AWARD
Martin Zanni
University of Wisconsin-Madison, USA
for innovative contributions to the technology and application of two-dimensional infrared spectroscopy.

ROBERT E. HOPKINS LEADERSHIP AWARD
Andrea Armani
University of Southern California, USA
for leadership in promoting online platforms for disseminating science and educational programs, thereby reducing barriers for early-career researchers and increasing mentoring opportunities worldwide.

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University of Central Florida, USA
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for innovative contributions to the technology and application of two-dimensional infrared spectroscopy.

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