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The World Academy
of Sciences

ANNUAL REPORT 2025

THE WORLD ACADEMY OF SCIENCES

for the advancement of science in developing countries



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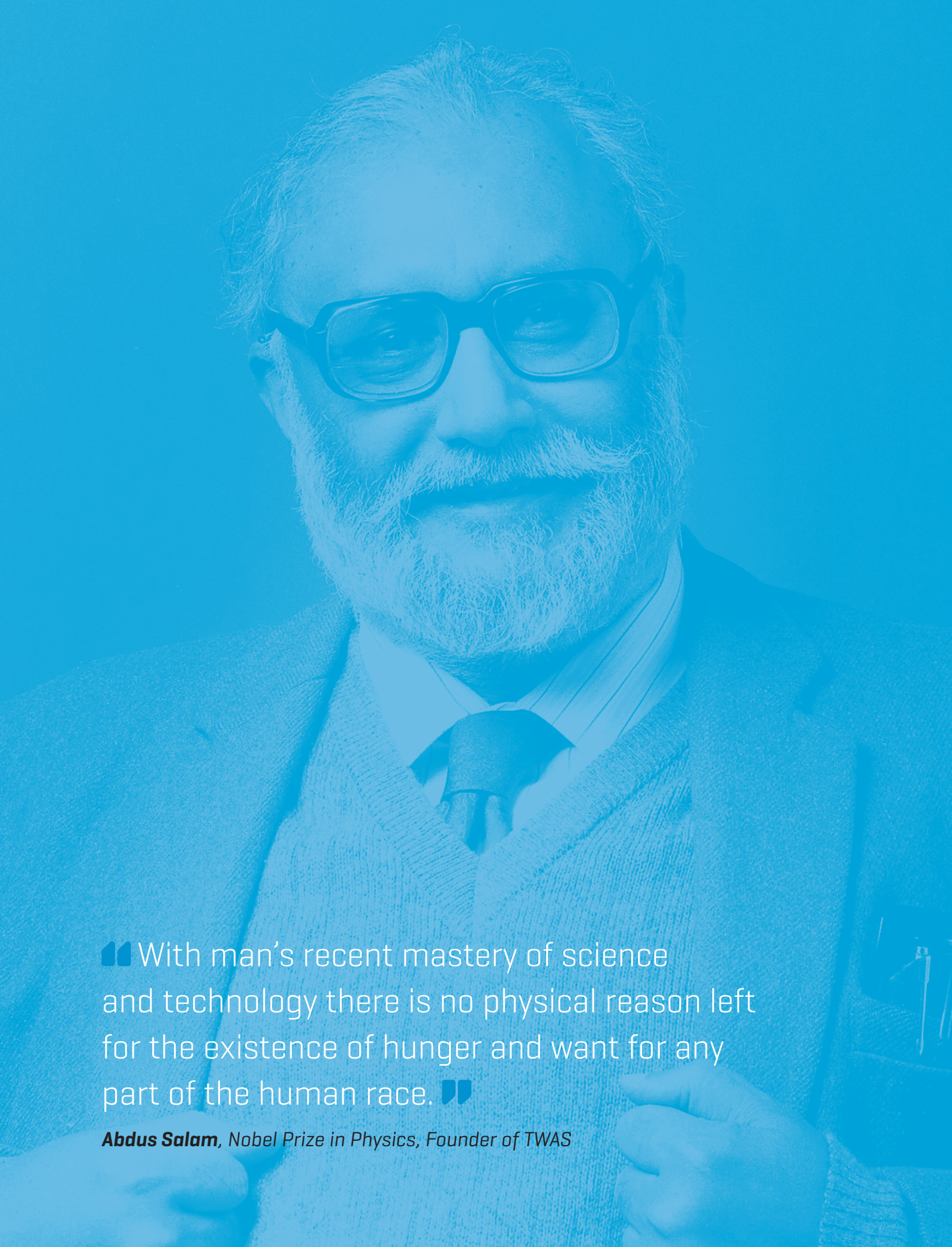
The World Academy
of Sciences

A faint, dotted world map serves as a background for the central text.

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THE WORLD ACADEMY OF SCIENCES

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A portrait of Abdus Salam, an elderly man with a full white beard and glasses, wearing a suit and tie. The image is overlaid with a solid blue color.

“With man’s recent mastery of science and technology there is no physical reason left for the existence of hunger and want for any part of the human race.”

Abdus Salam, Nobel Prize in Physics, Founder of TWAS



▲ A panoramic view of the participants at the 17th TWAS General Conference. [Photo: Mario Marques]

Cover photo: Some of the participants from the 2025 TWAS Skill Building Workshop in Nairobi, Kenya. [Photo: G. Ortolani/TWAS]

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TWAS COUNCIL

The TWAS Council, elected by the membership every four years, is responsible for supervising all of the Academy's affairs. The Council assumed office in January 2023 and will serve until the end of 2026:

President

Quarraisha Abdool Karim [South Africa]

Immediate Past President

Mohamed H.A. Hassan [the Sudan]

Vice-Presidents

Africa:

Olubukola O. Babalola [Nigeria]

Arab Region:

Sabah AlMomin [Kuwait]

Central and South Asia:

Muhammad Iqbal Choudhary [Pakistan]

East and South-East Asia:

Hou Jianguo [China]

Latin America and the Caribbean:

Helena B. Nader [Brazil]

North:

Mohamed Jamal Deen [Canada]

Secretary General

Lilliam Alvarez Díaz [Cuba]

Treasurer

Lee Young Hee [Republic of Korea]

Council Members

Africa:

Rose Leke Gana Fomban [Cameroon]

Arab Region:

Najoua Turki Kamoun [Tunisia]

Central and South Asia:

Anil Kumar Gupta [India]

East and South-East Asia:

Lê Tuân Hoa [Viet Nam]

Latin America and the Caribbean:

Sandra Myrna Díaz [Argentina]

North:

Markku Tapio Kulmala [Finland]

Ex-officio Council Member

Atish Dabholkar [India]

[Director, Abdus Salam International Centre for Theoretical Physics [ICTP]]

TWAS MISSION

The World Academy of Sciences for the advancement of science in developing countries (TWAS) supports sustainable prosperity through research, education, policy, and diplomacy.

TWAS was founded in 1983 by a distinguished group of scientists from the global South and North, under the leadership of Abdus Salam, the Pakistani physicist and Nobel laureate. By the end of 2025, TWAS had 1,476 elected Fellows—13 of them Nobel laureates—from 102 countries. The Academy is based in Trieste, Italy, on the campus of the Abdus Salam International Centre for Theoretical Physics [ICTP]. TWAS is a programme unit of the United Nations Educational, Scientific and Cultural Organization [UNESCO], and receives its core funding from the Italian Ministry of Foreign Affairs and International Cooperation [MAECI]. The Swedish International Development Cooperation Agency [Sida] and the Federal Ministry of Research, Technology and Space of Germany [BMFTR] also provide essential funding for TWAS programmes. Through over four decades, the TWAS mission has remained consistent:

- Recognize, support and promote excellence in scientific research in the developing world,
- Respond to the needs of young scientists in countries that are lagging in science and technology,
- Promote South-South and South-North cooperation in science, technology and innovation, and
- Encourage scientific research and sharing of experiences in solving major challenges faced by developing countries.

2025: A YEAR OF STRENGTHENING STI PARTNERSHIPS TOWARDS SUSTAINABLE FUTURES FOR ALL



by **Quarraisha
Abdool Karim,**
TWAS President

A quarter century has passed since we moved into the new millennium, and in that time, TWAS has also moved forward—welcoming 1,288 new Fellows, digitizing much of its infrastructure, solidifying its seat in global science, collaborating with new partners, and providing new perspectives on key issues such as science diplomacy, climate change, pandemic preparedness, food security, artificial intelligence, and inequality.

In 2025, in partnership with the Brazilian Academy of Sciences, TWAS celebrated the first in-person TWAS General Conference in seven years with the theme: ‘Building a Sustainable Future: The Role of Science, Technology, and Innovation for Global Development’. The Conference is usually hosted every other year and is an important venue for Fellows and Young Affiliates to gather, network, renew old friendships and make new ones. Our attendees get to tackle new and long-standing challenges as well as explore new opportunities to partner and collaborate.

The 2025 Conference was attended by about 300 TWAS Fellows, Young Affiliates, the Secretariat, high-level government officials, experts, and science journalists. Together, they discussed through plenary talks, panel discussions and during breaks how science can be used to accelerate progress on sustainable development, including issues relating to food security; health, gender, pandemic prevention and preparedness responses; science diplomacy; professional ethics; and the promise and perils of artificial intelligence. Importantly it was a moment to celebrate and welcome new

Fellows and be inspired by our award recipients.

The Conference opened with an inspiring and rousing opening ceremony that included a special message from Brazil’s President Luiz Inácio Lula da Silva, underscoring that now more than ever the powerful combination of innovation, capacity building and training and solidarity are key to a more just, sustainable, and multipolar world. Also included in the programme was a keynote address by Guatemalan Vice-President Karin Herrera, who detailed her country’s efforts to spur scientific growth. We also heard stirring lectures from Luiz Davidovich who won the prestigious TWAS Apex Award, and Moazzum Bajwa, TWAS Founder Abdus Salam’s grandson and an expert in family medicine, who detailed how TWAS continues to embody his grandfather’s mission four decades after its founding.

TWAS Young Affiliates assured us that our future is in good hands through their commendable ‘flash talks’ and paired poster sessions. A new TWAS strategy of a ‘women-only’ year every three years for new Fellows was presented and adopted to accelerate progress on closing gender gaps. We celebrated the 40th anniversary of TWAS and launched a coffee-table book that captures key moments and milestones in TWAS’s journey to date.

At this consequential, complex and unprecedented juncture, the centrality and critical role of partnerships and science and innovation to tackle converging complex challenges brought hope to participants. These include long-standing and deeply valued partnerships with the Italian government



▲ TWAS President Quarraisha Abdool Karim, left, and TWAS Fellow Helena B. Nader, president of the Brazilian Academy of Sciences, during the closing ceremonies of the 17th TWAS General Conference in Rio de Janeiro, Brazil.
[Photo: Mario Marques]

through its Ministry of Foreign Affairs and International Cooperation [MAECI], the Italian Agency for Development Cooperation [AICS], the Friuli Venezia Giulia region [FVG], and the institutions under the umbrella of the Friuli Venezia Giulia Scientific and Innovation System [SiS FVG]. TWAS participation in the Science for Society Annual Forum in Kyoto; the annual Big Data for Sustainable Development Forum in Beijing; the World Science Forum in Budapest; the UNESCO International Decade of Science for Sustainable Development; and more, reinforce TWAS's deep roots in the country, region and world and are connections that are vital for our mission.

We thank the German Federal Ministry of Research, Technology and Space of Germany [BMFTR], the German Research Foundation [DFG], the Swedish International Development Cooperation Agency [Sida], the Elsevier Foundation, the David and Lucile Packard Foundation and the American Association for the Advancement of Science [AAAS]; the Abdus Salam International Centre for Theoretical Physics [ICTP], the Organization for Women in Science for the Developing World [OWSD] and the InterAcademy Partnership [IAP].

The national governments of Brazil, China, and Chile are setting new models for country-level commitments complemented by our five Regional Partners, who keep TWAS closely connected to Fellows and local challenges in different regions of the developing world. The

TWAS Young Affiliates Network [TYAN], brings fresh energy to the Academy by fostering links among early-career scientists and promoting international collaboration.

These accomplishments are possible through the engagement of the TWAS Council and TWAS Fellows, who continue to generously serve on committees; represent TWAS at key meetings and conferences and actively participate in nominating new Fellows. In 2025, we welcomed 63 new Fellows, including 23 women across 10 subject categories to TWAS. These outstanding scientists represent excellence in innovation primarily from the global South and TWAS-identified Science- and Technology-Lagging Countries [STLCs].

Also importantly, TWAS programmes disbursed 68 research grants, and 19 TWAS-supported doctoral students graduated from across the global South, including 11 from STLCs and six from UN-identified Least Developed Countries [LDCs]. One notable programme, designed to facilitate North-South research links, is the TWAS-SISSA-Lincei Research Cooperation Visits Programme. In May 2025, six early-career scientists from Bangladesh, Madagascar, Nepal, Niger, and Rwanda, visited the TWAS headquarters in Trieste with their supervisors, and shared key findings from their research with Italian collaborators.

In partnership with AAAS, TWAS hosted the 12th Course on Science Diplomacy, a highly sought-after and competitive event for emerging science leaders. Selected candidates attended the course in 'participant pairs'—one early-career scientist and one policymaker each typically from the same country—to enhance understanding of the theory and practice underpinning science diplomacy and to validate tools that are important in its application.

This is just a tantalising preview of the accomplishments profiled in this Annual Report. We count on and deeply value your active engagement and partnership as we continue to advance the vision of the TWAS Founding Fellows and partners of using science, technology and innovation to benefit and enhance the lives of everyone, everywhere including the global South.

A YEAR 0

The year 2025 was a time of reflection and hope for TWAS. The Academy and its partners continued to build science in the global South through its traditional fellowships, grant, exchange, and science diplomacy programmes. But several special events highlighted issues of importance to the TWAS mission, while also bringing scientists, science enthusiasts, and the public together. Among the most notable events and announcements in 2025 were:

1 General Conference in Rio

The 17th TWAS General Conference took place at the Windsor Barra Convention Hotel in Rio de Janeiro, Brazil. Organized in partnership by the Brazilian Academy of Sciences and TWAS, the event focused on the theme: 'Building a Sustainable Future: The Role of Science, Technology, and Innovation for Global Development.' It addressed both the challenges and opportunities in leveraging science for sustainable development, while highlighting scientific excellence in the developing world and strengthening global collaboration—especially across Latin America and the Caribbean. [For more on the General Conference, see page 14]



2 Skill Building in Kenya

The 2025 TWAS Skill Building Workshop in October equipped 28 early-career African scientists with new tools to advance their research and foster collaboration across the continent. Over three days, they gained knowledge in scientific writing, responsible AI in science communication, the importance of mentoring, networking, and relevance of transdisciplinary research for sustainable development in Africa. It is a key component of the Seed Grant for New African Principal Investigators [SG-NAPI] Programme. [For more on research grants, see page 22]

F IMPACT



3 TWAS-SISSA-Lincei event

An event in May brought six early-career scientists from Least Developed Countries to the Academy to present the outcomes of their research stays under the TWAS-SISSA-Lincei Research Cooperation Visits Programme. Their local supervisors also joined the event to discuss the value of scientific collaboration in their respective fields. The programme is one of several exchange programmes administered through TWAS. [For more on fellowships and exchanges, see page 20]



4 Trieste Next

During the 14th edition of the science festival Trieste Next in September, the Academy co-organized a roundtable to explore the potential of artificial intelligence to tackle some challenges of today's society. The festival has been held every year since 2012 in Trieste, where TWAS is headquartered. TWAS also participated with a shared TWAS-IAP-OWSD-ICTP booth, providing a range of activities to the public including local schoolchildren. [For more on TWAS and Italy, see page 32]



5 40th anniversary book

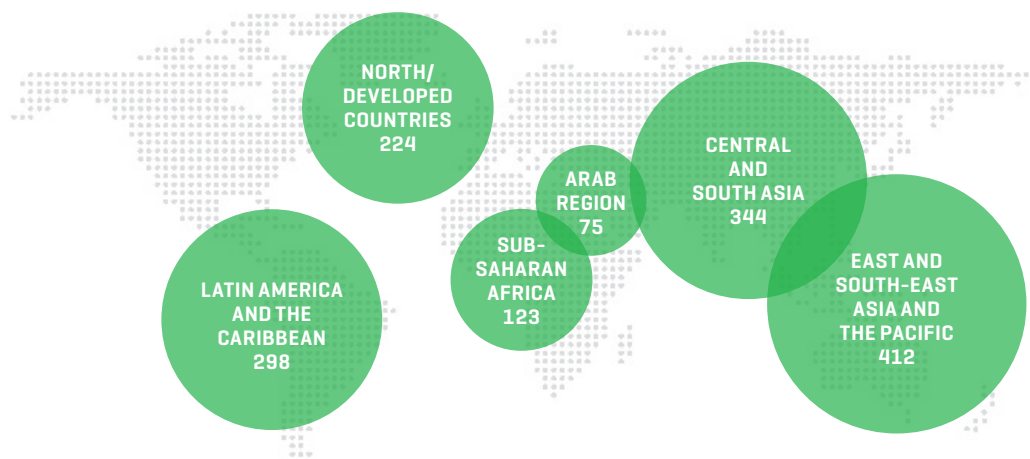
TWAS published a new book, titled 'TWAS in the New Millennium: Building scientific capacity in a time of promise and peril', which tells the story of TWAS since its founding in 1983, when the idea was made reality by TWAS Founder Nobel-winning Pakistani physicist Abdus Salam and his colleagues at the time. It then travels to the current day, when TWAS is an established, dynamic organization providing developing world scientists with the resources they need to thrive, and help others thrive too. [For more on communication, see page 34]

WHO W

As a global, merit-based science academy, TWAS represents the elite of scientific accomplishment in, or related to, the developing world. Only those scientists who have achieved the highest level of international standards—and have made significant contributions to the advancement of science—can be elected as lifetime Fellows.

In 2017, the TWAS Council decided that Fellows elected in December of one year would be inducted on 1 January of the following year. The charts below represent TWAS membership as of 31 December 2025 [including TWAS Fellows elected in 2025 but officially inducted in 2026].

Total TWAS Fellows, by region



TWAS Fellows elected in 2025, by region

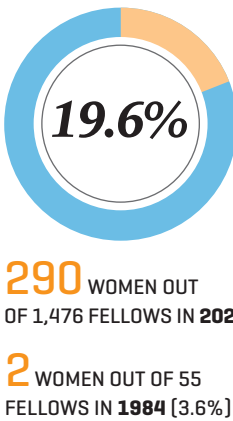


For a full list of Fellows elected in 2025, please see page 41

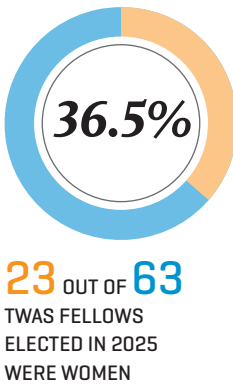
Fellows



Women Fellows



New Fellows



E ARE

TWAS FELLOWS AND YOUNG AFFILIATES

TWAS Fellows elected in 2025 by country of residence

10	CHINA
9	INDIA
8	BRAZIL
5	MALAYSIA
3	SOUTH AFRICA
2	BANGLADESH ^{1,2} ; CANADA; TAIWAN, CHINA; CUBA; EGYPT; IRAN [ISLAMIC REPUBLIC OF]; UNITED STATES OF AMERICA [THE]
1	ARGENTINA; AUSTRALIA; BOLIVIA [PLURINATIONAL STATE OF] ^{2,3} ; BOTSWANA ² ; CAMEROON ² ; DEMOCRATIC REPUBLIC OF THE CONGO [THE] ^{1,2,3} ; ECUADOR ³ ; NEPAL ^{1,2} ; NIGERIA; PAKISTAN; SAUDI ARABIA ³ ; SINGAPORE; THAILAND ³ ; VENEZUELA [BOLIVARIAN REPUBLIC OF]

¹ UN-identified Least Developed Country

² TWAS-identified Science- and Technology-Lagging Country

³ Global-South country considered to be underrepresented in membership by TWAS

Young Affiliates

 **127**
TOTAL YOUNG
AFFILIATES

 **455**
TOTAL YOUNG
AFFILIATES
AND ALUMNI
COMBINED
(41% WOMEN)

Four long-time supporters make the work of TWAS possible:

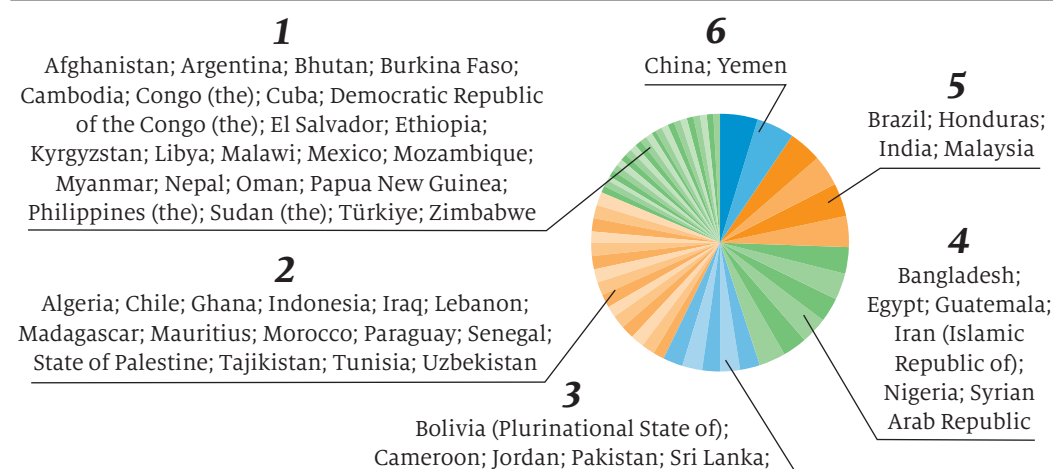
- **The Government of Italy**, through the **Ministry of Foreign Affairs and International Cooperation (MAECI)**, provides core funding;
- **The Swedish International Development Cooperation Agency (Sida)** supports TWAS research grants and science diplomacy initiatives;
- **The United Nations Educational, Scientific and Cultural Organization (UNESCO)** administers TWAS funds and personnel;
- **The Abdus Salam International Centre for Theoretical Physics (ICTP)** hosts TWAS on its campus in Trieste, Italy, and provides administrative support.

Countries with TWAS Fellows

More info: twas.org/directory/overview

Algeria	China	France	Democratic Republic (the)	Peru	Sudan (the)	of Tanzania (the)
Argentina	Taiwan, China	Gambia (the)	Lebanon	Philippines (the)	Sweden	United States of America (the)
Australia	Colombia	Georgia	Libya	Puerto Rico	Switzerland	Tajikistan
Austria	Congo (the)	Germany	Madagascar	Qatar	Thailand	Uruguay
Azerbaijan	Côte d'Ivoire	Guatemala	Malawi	Republic of Korea (the)	Togo	Uzbekistan
Bahrain	Cuba	Guyana	Malaysia	Rwanda	Trinidad and Tobago	Venezuela
Bangladesh	Democratic Republic of Korea (the)	Hungary	Mali	Saudi Arabia	Tunisia	[Bolivarian Republic of]
Barbados	Iran [Islamic Republic of]	India	Mauritius	Senegal	Türkiye	Viet Nam
Belgium	Iraq	Italy	Mexico	Serbia	Uganda	Yemen
Benin	Republic of the Congo	Jamaica	Mongolia	Sierra Leone	Ukraine	Zambia
Bolivia	[Plurinational State of]	Japan	Morocco	Singapore	United Arab Emirates (the)	Zimbabwe
Botswana	(the)	Jordan	Nepal	Slovenia	United Kingdom of Great Britain and Northern Ireland (the)	
Brazil	Ecuador	Kazakhstan	New Zealand	South Africa		
Burundi	Egypt	Kenya	Nicaragua	Spain		
Cameroon	El Salvador	Kuwait	Nigeria	Sri Lanka		
Canada	Ethiopia	Lao People's	Norway	State of Palestine (the)		
Chile	Finland		Oman			
			Pakistan			

TWAS Young Affiliates in 2025 by country of residence*



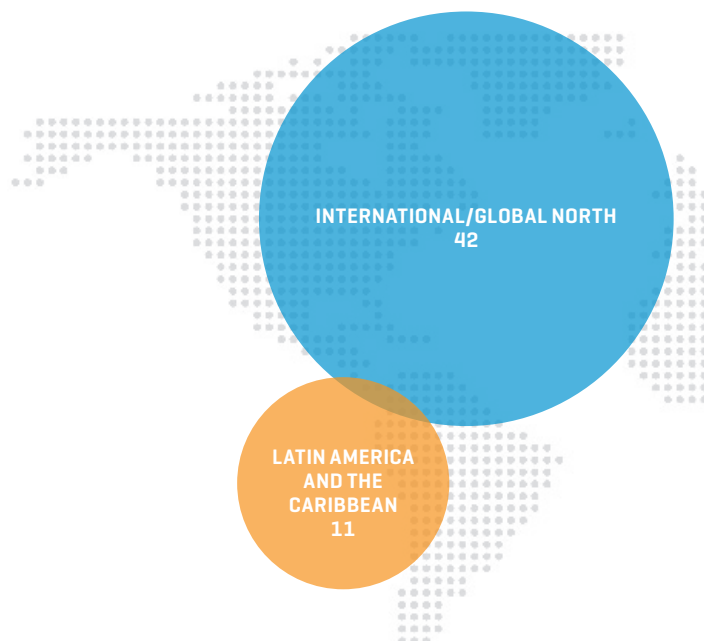
* Scientists selected under the Islamic Development Bank-TWAS Refugee and Displaced Young Scientists Programme are classified by country of origin.

TWAS PA

INTERNATIONAL/GLOBAL NORTH

- Abdus Salam International Centre for Theoretical Physics (ICTP), Italy
- Accademia Nazionale dei Lincei, Italy
- The Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO), China
- American Association for the Advancement of Science (AAAS), the United States of America
- Area Science Park, Italy
- Autonomous Region of Friuli Venezia Giulia (FVG), Italy
- Biological and Toxin Weapons Convention (BWC), Switzerland
- David and Lucile Packard Foundation, the United States of America
- Elettra Synchrotron Trieste, Italy
- Elsevier Foundation, Kingdom of the Netherlands
- Federal Ministry of Research, Technology and Space (BMFTR), Germany
- German Research Foundation (DFG), Germany
- Global Young Academy (GYA), Germany
- InterAcademy Partnership (IAP), Italy
- Intergovernmental Panel on Climate Change (IPCC), Switzerland
- International Centre for Genetic Engineering and Biotechnology (ICGEB), Italy
- International Development Research Centre (IDRC), Canada
- International Institute for Applied Systems Analysis (IIASA), Austria
- International Mathematical Union (IMU), Germany
- International Network of Government Science Advice (INGSA), New Zealand
- International School for Advanced Studies (SISSA), Italy
- International Science Council (ISC), France
- Islamic Development Bank (IsDB), Saudi Arabia
- Italian Agency for Development Cooperation (AICS), Italy
- Lindau Nobel Laureate Meetings, Germany
- Materials Foundry, National Research Council, Italy
- Ministry of Foreign Affairs and International Cooperation (MAECI), Italy
- National Academies of Sciences, Engineering and Medicine, the United States of America
- National Institute of Oceanography and Applied Geophysics (OGS), Italy
- National Institute for Nuclear Physics (INFN), Italy
- Organization for Women in Science for the Developing World (OWSD), Italy
- Scientific and Innovation System of Friuli-Venezia Giulia (SiS FVG), Italy
- Swedish International Development Cooperation Agency (Sida), Sweden
- The Rockefeller Foundation, the United States of America
- The Scientific and Technological Research Council of Türkiye (TÜBITAK), Türkiye

- Trieste International Foundation for the Progress and Freedom of Science (FIT), Italy
- TWAS Young Affiliates Network (TYAN), Italy
- United Nations Educational, Scientific and Cultural Organization (UNESCO), France
- United Nations Technology Bank for the Least Developed Countries (UNTB), Türkiye
- University of Trieste, Italy
- University of Udine, Italy
- World Science Forum, Hungary



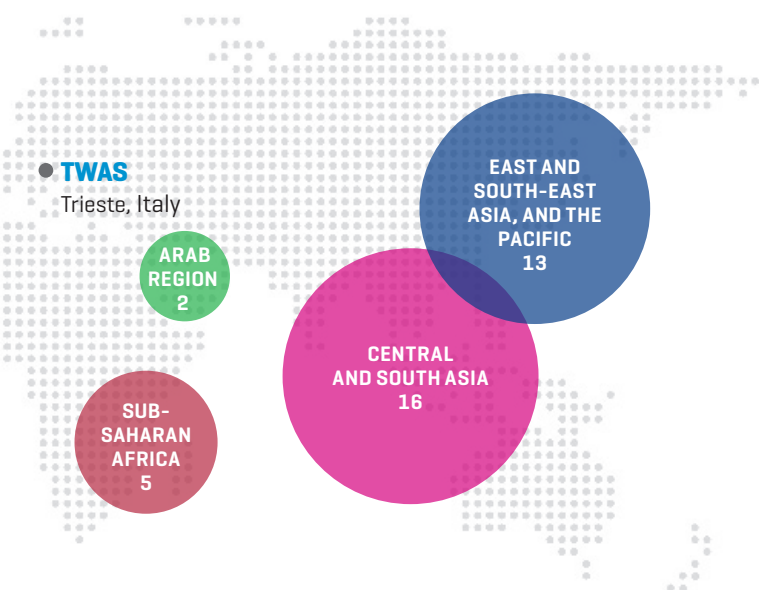
LATIN AMERICA AND THE CARIBBEAN

- Brazilian Academy of Sciences, Brazil
- Caribbean Community (CARICOM), Guyana
- Chilean Academy of Sciences, Institute of Chile, Chile
- Conrado Wessel Foundation, Brazil
- Ministry of Science, Technology and Innovation, Argentina
- Ministry of Science, Technology and Innovation, Brazil
- National Council for Scientific and Technological Development (CNPq), Brazil
- National Agency for Research and Development (ANID), Chile
- National Scientific and Technical Research Council (CONICET), Argentina
- São Paulo Research Foundation (FAPESP), Brazil
- Secretariat of Science, Humanities, Technology and Innovation (SECIHTI), Mexico

RTNERS

“ TWAS has dedicated partners who are committed to turning visionary ideas into real outcomes. ”

Quarraisha Abdool Karim, TWAS President



ARAB REGION

- Bibliotheca Alexandrina (BA), Egypt
- King Abdullah University of Science and Technology (KAUST), Saudi Arabia

SUB-SAHARAN AFRICA

- Academy of Science of South Africa (ASSAf), South Africa
- African Academy of Sciences (AAS), Kenya
- International Centre of Insect Physiology and Ecology (icipe), Kenya
- National Research Foundation (NRF), South Africa
- Sudanese National Academy of Sciences (SNAS), the Sudan

EAST AND SOUTH-EAST ASIA, AND THE PACIFIC

- Academia Sinica, Taiwan, China
- Academy of Sciences Malaysia, Malaysia
- China Association for Science and Technology (CAST), China
- Chinese Academy of Sciences (CAS), China
- International Research Center of Big Data for Sustainable Development Goals (CBAS), China
- International Science, Technology and Innovation Centre for South-South Cooperation (ISTIC), Malaysia
- Lenovo Group Limited, China
- Ministry of Science and Technology, China
- National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand
- Science University of Malaysia (USM), Malaysia
- Siwei Cheng Foundation, China
- Thailand Science Research and Innovation (TSRI), Thailand
- University Putra Malaysia (UPM), Malaysia

CENTRAL AND SOUTH ASIA

- Centre of Excellence in Molecular Biology (CEMB), University of the Punjab, Pakistan
- Commission on Science and Technology for Sustainable Development in the South (COMSATS), Pakistan
- COMSATS University Islamabad (CUI), Pakistan
- Council of Scientific and Industrial Research (CSIR), Ministry of Science and Technology, India
- Department of Biotechnology, Ministry of Science and Technology, India
- Department of Science and Technology (DST), Ministry of Science and Technology, India
- Indian Association for the Cultivation of Science (IACS), India
- International Center for Chemical and Biological Sciences (ICCBS), Pakistan
- Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India
- Lahore University of Management Sciences (LUMS), Pakistan
- Ministry of Science, Research and Technology, the Islamic Republic of Iran
- Organization of Islamic Cooperation Standing Committee on Scientific and Technological Cooperation (COMSTECH), Pakistan
- National Centre for Physics (NCP), Pakistan
- Searle Pakistan Limited, Pakistan
- S.N. Bose National Centre for Basic Sciences (SNBNCBS), India
- The Dawood Foundation (TDF), Pakistan

TWAS 17TH GENERAL CONFERENCE: RIO DE JANEIRO

With an agenda that explored accomplishments on the frontiers of scientific discovery, TWAS drew on its international community of researchers and policy experts to convene its 17th General Conference. The event was full in-person for the first time since 2018, and took place in its host city of Rio de Janeiro, Brazil, from 29 September to 2 October 2025. Organized in partnership with the **Brazilian Academy of Sciences**, the event explored how science, technology, and innovation (STI) can help achieve the

Sustainable Development Goals (SDGs), particularly in the global South. It addressed both the challenges and opportunities in leveraging STI for sustainable development, while highlighting scientific excellence in the developing world and strengthening global collaboration—especially across Latin America and the Caribbean.

This was the third year the Academy's headlining event has been held in Brazil, highlighting the long-standing relationship between the nation and TWAS.

◀ Luiz Inácio Lula da Silva, President of Brazil, delivering his message to the opening ceremony. [Photo: G.Ortolani/TWAS]

▼ Quarraisha Abdool Karim, TWAS President, and Moazzum Bajwa, Abdus Salam's grandson, at the Conference. [Photo: Mario Marques]



► From left: TWAS Executive Director Marcelo Knobel speaks during the conference.
[Photo: Mario Marques].

Assistant Director-General for Natural Sciences for UNESCO Lidia Brito speaks at the Conference.
[Photo: Mario Marques]

TWAS Vice-President for Latin America and the Caribbean, and President of the Brazilian Academy of Sciences Helena Nader speaks at the Conference.
[Photo: Mario Marques]



“It is particularly significant that this General Conference is taking place in Brazil, a nation that has recently hosted the S20 and the BRICS summit, reaffirming its strong commitment to multilateralism, to scientific collaboration, and to building bridges between countries of the global South and the world at large.”

Helena Nader, the president of BAS and vice-president of TWAS for Latin America and the Caribbean

Conference attendance



291
ATTENDEES



66
REPRESENTED
COUNTRIES



140
TWAS FELLOWS



21
YOUNG
AFFILIATES



37
YOUNG
AFFILIATE
ALUMNI



122
WOMEN

Highlights included:

Presidential message: Speaking at the opening ceremony, TWAS leaders and representatives of Brazilian and international institutions emphasized the importance of global collaboration, scientific excellence, and inclusive innovation. Among them was a message delivered to the opening ceremony by Brazilian President Luiz Inácio Lula da Silva. “Here we have the knowledge, creativity, and dedication of scientists from all over the world. Here are the women and men who can help us turn difficulties into solutions,” he said of the Conference.

Keynote lecture: Guatemalan Vice-President Karin Herrera delivered a keynote address, detailing her country’s quest for scientific growth. It was offered as a model for how many developing countries have benefited from prioritizing their dedication to scientific advancement

Special session: Attendees heard a special session on trends and perspectives on science in the global South, focused on the state of

science in Low- and Middle-Income Countries and the Sustainable Development Goals’ role in the changing geography of research.

Topical discussions: The Conference included two major symposiums on some of the most major challenges faced by science today: The ethics of artificial intelligence, and the effects of climate change on food security.

Quantum honours: TWAS Fellow and leading quantum physicist Luiz Davidovich was presented with the TWAS Apex Award in quantum science and technology, joining in the celebrations of the United Nations International Year of Quantum Science and Technology. For Davidovich, who also gave a lecture on his research, this timing underscores the need for the global South not to be left behind in this new era.

TWAS in the New Millennium: TWAS released a new book celebrating 40 years of supporting science in the developing world. The book shines a light on the Academy’s history of growth, education, and sustainable progress.



▲ TWAS Fellow Ram Prasad Chaudhary of Tribhuvan University, Nepal.

◆ Staff at the registration desk is welcoming the participants.

17TH TWAS GENERAL CONFERENCE IN IMAGES

▼ TWAS Vice-President for Latin America and the Caribbean Helena Bonciani Nader of Brazil, who is also the president of the Brazilian Academy of Sciences.



▼ TWAS Fellow Akiça Bahri, former minister of agriculture, water resources and fisheries of Tunisia.



▼ The 17th TWAS General Conference was held in 2025 in Rio de Janeiro.



▲ TWAS Young Affiliates discuss their work during a poster session at the conference.



▲ From left: TWAS President Quarraisha Abdool Karim of South Africa; Raghavan Varadarajan, professor, Indian Institute of Science, India; and Yi-Fang Tsay, distinguished research fellow, Academia Sinica, Taiwan, China.

All photos by Mario Marques



HONOURING SCIENTIFIC EXCELLENCE

TWAS organizes accolades that provide a powerful incentive for scientists to excel at new levels, while bringing global recognition to the achievements of researchers from the developing world.

The Academy administers numerous awards—some of them annual, others conferred every two years. These awards are often named after generous and highly accomplished TWAS Fellows.

Luiz Davidovich, a quantum physicist and Emeritus Professor at the Federal University of Rio de Janeiro, received the **2025 TWAS Apex Award**. In fact, 2025 marked the 20th anniversary of the award, one of the most prestigious honours bestowed upon scientists from the developing world. In 2025, it focused on quantum science and technology, recognizing outstanding contributions to this

▼ Award recipients at 17th TWAS General Conference in Rio de Janeiro, Brazil. [Photo: Mario Marques]





“Today, quantum science and technology are becoming deeply embedded into everyday life. They power computers, solar panels, smartphones, medical tools such as lasers and MRI machines, advanced materials, GPS systems, and even precision agriculture.”

Luiz Davidovich, 2025 TWAS Apex Award recipient

▲ From left: TWAS Fellow Tuan Hoa Le, a TWAS Council member and professor at the Vietnam Academy of Science and Technology, Viet Nam; TWAS Fellow Luiz Davidovich of Federal University of Rio de Janeiro, Brazil; and TWAS President Quarraisha Abdool Karim of South Africa. [Photo: Mario Marques]

rapidly advancing field. It carried a monetary prize of USD 100,000, along with a medal and a certificate recognizing the recipient’s achievements in science and technology.

The award cited Davidovich “for his contributions to theoretical advances and groundbreaking experiments in quantum optics and quantum information, and for his worldwide leadership in the area of quantum science.”

Davidovich is also one of the recipients of the **TWAS Medal Lecture**, and his lecture was included in the official celebrations of the 2025 International Year of Quantum Science and Technology [IYQ], which recognizes 100 years since the initial development of quantum mechanics. In his lecture, Davidovich walked the audience through the history of quantum mechanics that led to exciting modern technologies such as brain scanning, new lasers, atomic clocks, better solar panels, and quantum computers.

Adey Feleke Desta of Ethiopia received the **2025 TWAS-Samira Omar Innovation for Sustainability Award** for her innovative work in safeguarding water environments from contamination, generating data that inform decision-making, and advancing Sustainable Development Goal 6: Clean Water and Sanitation.

Fatouma Mohamed Abdoul-Latif of Djibouti received the **2025 TWAS-Abdool Karim Award in Biological Sciences** for her pioneering research on natural substances with health and environmental applications, and for her

leadership in advancing STEM and international scientific collaborations in Djibouti.

Gift Mehlana of Zimbabwe received the **2025 TWAS-Atta-ur-Rahman Award in Chemistry** for his contribution to the development of porous materials as support platforms for biological and chemical catalysts.

Kanishka Biswas of India received the **2025 TWAS-CAS Young Scientists Award for Frontier Science in the Physical Sciences** for pioneering research in inorganic solid-state chemistry, developing new metal chalcogenide compounds with outstanding thermoelectric performance.

Angelina Mwesige Kakooza of Uganda received the **2025 TWAS-Fayzah M. Al-Kharafi Award in Medical Sciences** for her research on neurodevelopmental disorders—particularly epilepsy, cerebral palsy, and nodding syndrome—and for advancing policy and research mentorship, as well as local community interventions to enhance children’s health.

TWAS Medals: TWAS named five TWAS Medalists for 2025, three of whom (in *italics*) delivered guest lectures at the TWAS General Conference in Brazil. They are:

- *Akiça Bahri* [Tunisia]
- *Luiz Davidovich* [Brazil]
- *Shirley Malcom* [the United States of America]
- *Li Yin* [China]
- *Anton Zeilinger* [Austria]

TWAS awardees (by gender)



11

TOTAL IN 2025



45%

WOMEN



1,317

TOTAL

1985–2025



20%

WOMEN

EDUCATION AND TRAINING

TWAS manages the world's largest programme for **South-South PhD and postdoctoral research fellowships**. Through the Academy, associated organizations, and partners, early-career researchers can continue their education and gain experience at world-class science institutions in the developing world. In 2025, this included Brazil, China, India, Pakistan, and Türkiye.

By the end of 2025, a grand total of 2,823 scholars had accepted PhD opportunities from TWAS, with 255 actively pursuing their PhDs on-site at their host institutions. A total of 1,292 fellowship beneficiaries were confirmed to have graduated by the end of the year. A total of 19 new PhD graduates from 13 developing countries confirmed their graduation in 2025 through TWAS fellowships.

◀ Left: During an event for beneficiaries of the TWAS-SISSA-Lincei Research Cooperation Visits Programme, from right: Rivoharifara Randrianarimanana, Mutual Learning Lab-Plant Biology and Ecology Department, University of Antananrivo, Madagascar; Andrea Vacchi, Professor with the Italian National Institute for Nuclear Physics [INFN] - Trieste Laboratory, Italy; and Kawchar Patwary, Department of Physics, Comilla University, Comilla, Bangladesh. Far left: Marco Contin, Associate Professor, Department of Agricultural and Environmental Sciences, University of Udine, Italy. [Photo: G.Ortolani/TWAS]

Right: Theophile Bimenyimana, School of Mining and Geology, College of Science and Technology, University of Rwanda, Kigali, Rwanda, during an event for beneficiaries of the TWAS-SISSA-Lincei Research Cooperation Visits Programme. [Photo: G.Ortolani/TWAS]



PhD fellowships

119 AWARDS
AVAILABLE
IN 2025

102 AWARDED

6 PARTNERS

5 HOST
COUNTRIES

53 ON-SITE

Postdoctoral fellowships

36 AWARDS
AVAILABLE
IN 2025

32 AWARDED*

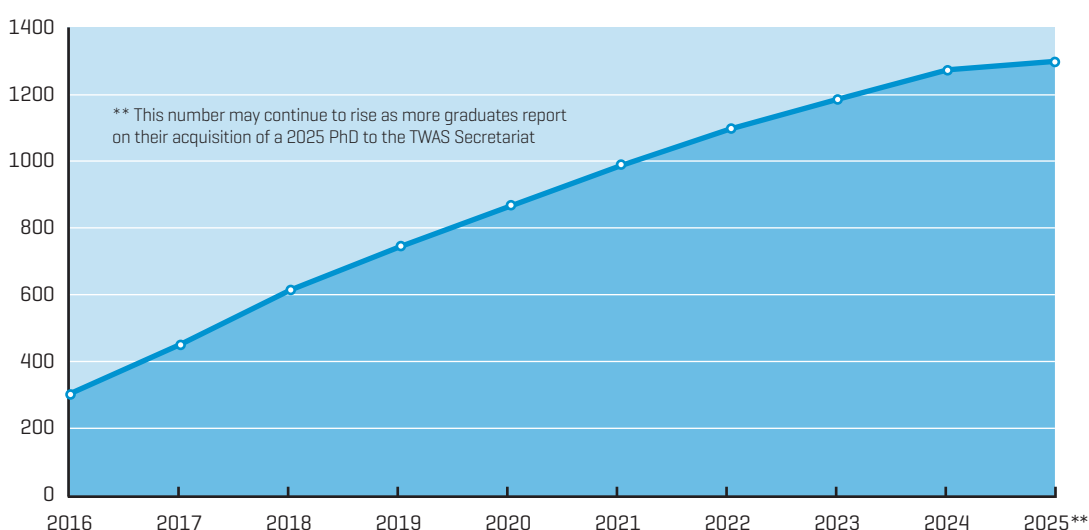
5 PARTNERS

3 HOST
COUNTRIES

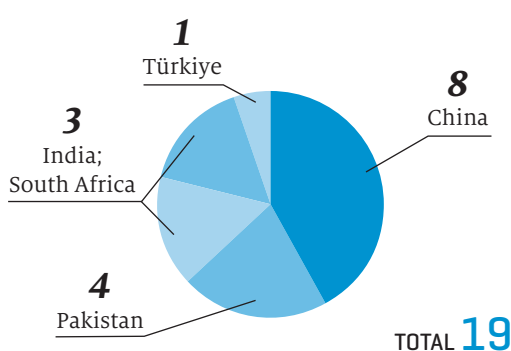
6 ON-SITE

* This number includes awards given in 2025 from calls initiated in both 2024 and 2025.

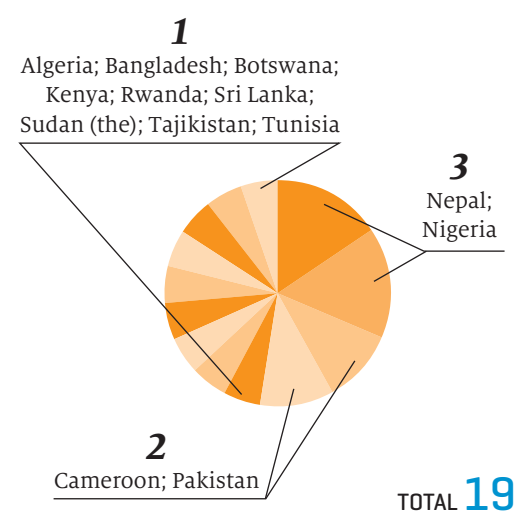
Cumulative total of all TWAS PhDs graduated over the last 10 years



Country of training for new PhDs graduated



Home country for new 2025 PhD graduates



VISITING SCIENTISTS

TWAS also provides opportunities to established researchers from the South to pursue collaborations and education, or to gather experience in a country other than their own. In 2025, the programmes included:

- **TWAS-UNESCO Associateship Scheme:** 12 developing-world scientists from 8 countries
- **TWAS-DFG SSA Cooperation Visits Programme:** 50 scientists from 19 sub-Saharan African countries visiting Germany
- **TWAS-DFG MENA Cooperation Visits Programme:** 25 scientists from 9 Middle East and North Africa countries visiting Germany
- **TWAS Research and Advanced Training Fellowship Programme:** 33 developing-world scientists from 20 countries
- **TWAS-SISSA-Lincei Research Cooperation Visits Programme:** 20 developing world scientists from 13 countries visiting research institutions in the Friuli Venezia Giulia Region of Italy
- **TWAS Visiting Expert Programme:** 13 experts aiding scientific development in 11 different countries in the global South

South-South PhD fellowships programme, a full history:

3,093 PHD FELLOWSHIP OPPORTUNITIES
AWARDED SINCE THE INCEPTION OF THE
PROGRAMME

2,823 FELLOWSHIPS ACCEPTED AND BEGUN
BY DEVELOPING-WORLD SCIENTISTS

1,292 PHDs CONFIRMED TO HAVE BEEN
GRADUATED BY THE END OF 2025

255 PHD FELLOWSHIP HOLDERS ON-SITE
WORKING TOWARD THEIR DEGREES DURING 2025

PROGRESS THROUGH RESEARCH

TWAS provides grants to researchers in targeted developing countries for specialized equipment, consumable supplies, scientific publications, and training of master's degree students. These grants help to lay a foundation for research in countries with scarce resources.

The Academy's largest grants programme is **TWAS Research Grants**, which awards key funding to researchers in Science- and Technology-Lagging Countries identified by TWAS. The programme has existed since 1986, and includes four categories, providing support for individual scientists, research groups, collaborative interdisciplinary research, and equipment maintenance. Core funding is provided by the **Swedish International Development Cooperation Agency (Sida)**, with 44 grants awarded in 2025.

Supported by the **German Federal Ministry of Research, Technology and Space (BMFTR)** are the **Seed Grants for New African Principal Investigators (SG-NAPI)**, which in 2025 made its fourth call for applications and awarded 24 grants. The programme supports projects in sub-Saharan Africa and seeks to facilitate the return of young scientists who obtained their



PhD outside of their home country to Africa and help local researchers to establish their own laboratories.

TWAS also held the **2025 TWAS Skill Building Workshop**, which took place in Nairobi, Kenya, 21–23 October 2025. This workshop is designed to enhance the scientific skills of African scientists, fostering a stronger scientific community across the continent. It brought together 28 grantees of the SG-NAPI programme from 16 African countries.

◀ TWAS SG-NAPI recipient Faith Agbozo, University of Health and Allied Sciences, Ho, Volta Region, Ghana. [Photo: G. Ortolani/TWAS]

TWAS Research Grants



2,859

AWARDED
SINCE 1986



38

MSc STUDENTS
SUPPORTED
IN 2025

Field of research of 2025 TWAS Research Grants

24

BIOLOGY

12

CHEMISTRY

5

PHYSICS

3

MATHEMATICS



▲ Group photo of speakers and participants at the 2025 TWAS Skill Building Workshop, Nairobi, Kenya. [Photo: G. Ortolani/TWAS]

▼ Nekpen Erhunse, left, University of Benin, Faculty of Life Sciences, Department of Biochemistry, Benin City, Nigeria, and Nikechukwu Nike Omosun, Michael Okpara University of Agriculture, Department of Chemistry, Umuahia, Umudike, Nigeria. [Photo: G. Ortolani/TWAS]

SG-NAPI Grants



121

AWARDED
SINCE 2021



33

MSc STUDENTS
SUPPORTED
IN 2025

Field of research of 2025 SG-NAPI Grants

6 AGRICULTURE;
MEDICAL SCIENCES

3 BIOLOGY;
CHEMISTRY;
ENGINEERING;

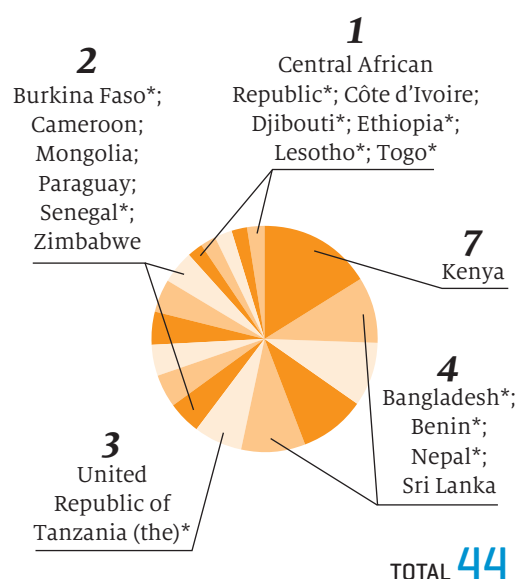
1 EARTH SCIENCES;
INFORMATION COMPUTER
TECHNOLOGY; PHYSICS

“ The sessions on responsible AI, science communication, and transdisciplinary collaboration were particularly inspiring, as they demonstrated how data-driven approaches and cross-disciplinary networks can accelerate innovation. ”

Kudzai Mugadza, a researcher and deputy director at the Institute of Materials Science, Processing and Engineering Technology at Chinhoyi University of Technology in Zimbabwe, on the 2025 TWAS Skill Building Workshop in Nairobi, Kenya

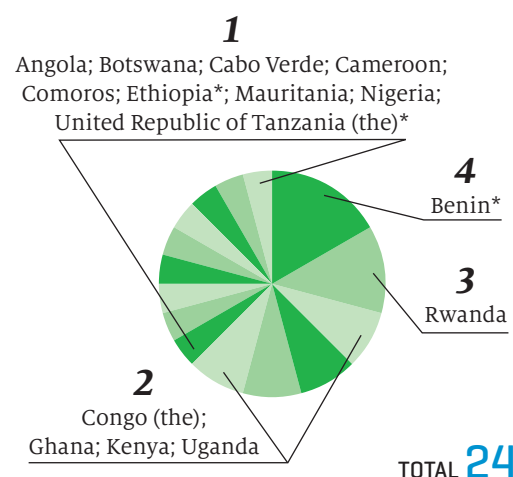


Where did TWAS Research Grants go in 2025?



* Least Developed Country

Where did SG-NAPI Grants go in 2025?



* Least Developed Country

SCIENCE DIPLOMACY

To address regional and global challenges, the world requires effective partnerships between scientists, policymakers, and diplomats. TWAS, based in Italy and with networks that span the world, is uniquely positioned to help bring these communities together.

Key partners of the science diplomacy programme include the **American Association for the Advancement of Science (AAAS)**, which collaborates with TWAS on an annual summer course.

AAAS-TWAS Course on Science Diplomacy:

The 12th edition of this globally recognised course was held 21–24 July 2025, in Trieste, Italy. Selected candidates attended the course in ‘participant pairs’—one early-career scientist and one policymaker each typically from the same country—to understand better the theory and practice of science diplomacy and to test the tools that are important in its application.

The course was attended by 20 participants, or 10 pairs. The pairs were challenged to play

◀ Left: Ovie Augustine Edegbene, of the Federal University of Health Sciences, Otuop, Benue State, Nigeria, at the 12th AAAS-TWAS Course on Science Diplomacy. (Photo: G.Ortolani/TWAS)

Right: The participant pair from the Plurinational State of Bolivia, from left, Mayra Ingrid Zalles Trigo, and Natalia Montellano Duran. (Photo: G.Ortolani/TWAS)



AAAS-TWAS Course on Science Diplomacy

20 PARTICIPANTS

10 COUNTRIES:

BOLIVIA
(PLURINATIONAL
STATE OF)*, BRAZIL,
CAMEROON*, EGYPT,
KENYA*, MALAYSIA,
NEPAL*, NIGERIA,
PHILIPPINES [THE],
SRI LANKA*

* TWAS-identified Science- and
Technology-Lagging Countries



▲ Participants in the 12th AAAS-TWAS Course on Science Diplomacy. [Photo: G.Ortolani/TWAS]

Participants and speakers were divided as follows

13 WOMEN [65%]

10 FROM SCIENCE- AND TECHNOLOGY-LAGGING COUNTRIES [50%]

10 YOUNG SCIENTISTS (AGE 40 OR BELOW) [50%]

10 POLICYMAKERS [50%]

14 SPEAKERS [7 FROM THE GLOBAL SOUTH]

out roles in simulated negotiations on difficult topics—with international competing interests and thus requiring application of science diplomacy skills—such as the construction of a dam on a shared river, or the conservation of endangered species in a transboundary forest. Since its inception in 2014, the programme has now trained 408 alumni from 89 countries, some of whom have since advised policy makers and governments on transboundary issues.

Other noteworthy science diplomacy achievements in 2025 include:

An alumnus of the AAAS-TWAS summer course, Shahmy Seyed of Sri Lanka, organized a **forum on science diplomacy in Colombo, Sri Lanka**. The event was held on 10 November 2025 and was organized by Sri Lanka's Ministry of Science and Technology, in collaboration with the Ministry of Foreign Affairs, Foreign Employment and Tourism, and in partnership with TWAS. As part of the National Science Day celebrations during Science Week 2025, the forum convened more than 100 in-person participants and over 200 online attendees. TWAS Fellow Zakri Abdul Hamid delivered the keynote address, and TWAS Executive Director Marcelo Knobel participated in a panel about scientific partnerships and cooperation.

TWAS collaborated with the Human Sciences Research Council (HSRC), South Africa, with the first **HSRC Science Diplomacy Summer School** on 15–17 October 2025 [online] and 19–25 October 2025 [in person in Johannesburg, South Africa]. The summer school was

WHAT IS SCIENCE DIPLOMACY?

Science diplomacy is a broad way of describing how the fields of science and diplomacy continually support one another, and by doing so they also help society as well. Part of the idea is that the fact-focused principles of science can also speak across borders, simultaneously building knowledge and guiding leaders toward peaceful solutions to points of tension.

organized in collaboration with several South African organizations dealing with advancing science diplomacy in Africa.

Knobel also participated in a **meeting of experts from across Europe**, with a particular focus on South-East Europe, convened in Ljubljana on 18–19 November 2025. The event explored how science diplomacy can strengthen regional and transboundary cooperation on climate change, shared natural resources, and emerging technologies. The meeting was co-organised by the UNESCO Regional Bureau for Science and Culture in Europe and the Government of Slovenia through its Ministry of Higher Education, Science and Innovation, in cooperation with other UNESCO and Slovenian agencies.

The **Organization for Women in Science for the Developing World (OWSD)** contributed sponsorship funding for the event.

EMPOWERING WOMEN

Supporting women in research is a central part of the mission of TWAS. The Academy and its partners offer numerous opportunities to women in the developing world, which is not only valuable for the careers of individual researchers, but critical for activating developing nations' full scientific potential.

In 2025, 10 African women scientists who have long been engaged in climate research who are supported by the **TWAS-Elsevier Foundation Project Grants for Gender Equity and Climate Action** took part in a training workshop on 28 October. The project grants stand out because they have three common themes: to strengthen gender equity, address the climate-related needs of local communities, and apply scientific knowledge to real-life scenarios.

The UNESCO-TWAS workshop they attended, called Science-based Solutions for Climate Action in Africa, brought together 30 participants to strengthen their skills to address climate-related challenges through interactive sessions and collaborative learning. Taking place at the African Union headquarters in Addis Ababa, Ethiopia, the event featured training sessions on leadership, team-building, education, and the role of community and

faith-based networks in helping people respond to and recover from challenging situations.

A TWAS session also took place at the International Symposium GeoAdriatico showcasing the project grants. At the session representatives from Asia, Africa, South America, and Europe shared their insights on the intersection of gender equity and climate action, emphasizing local strategies that address both environmental challenges and women's rights.

One of TWAS's grant programmes, the **Seed Grant for New African Principal Investigators [SG-NAPI]**, supported by the German Federal Ministry of Research, Technology and Space [BMFTR] includes a special component called the **'Science after Child'** scheme. It allows pregnant scientists and new mothers to receive extra funding to hire a lab assistant and benefit from reliable maternity leave support.

GeoAdriatico Symposium: How to ensure that women's voices are central to climate solutions was the focus of a session hosted by TWAS at the international symposium GeoAdriatico, held on 14 June in Trieste, Italy. The session explored how climate change disproportionately affects women, deepening existing inequalities and



▲ Attendees of the OWSD 7th General Assembly in Bogotá, Colombia.

threatening human rights. Chaired by TWAS Executive Director Marcelo Knobel, it featured the TWAS–Elsevier Foundation Project Grants for Gender Equity and Climate Action, which supports innovative, women-led projects that build climate resilience.

TWAS also hosts an influential partner building science capacity in the developing world at its offices in Trieste, Italy—its sister organization, the **Organization for Women in Science for the Developing World [OWSD]**.

OWSD emerged from a conference organized by TWAS in 1988. It is the first international forum for women scientists from the developing and developed worlds with the objective of strengthening their roles in the development process and promoting their representation in science and technology leadership.

As of the end of 2025, OWSD had more than 11,500 members, over 85% of them women

with Masters or Doctorate degrees in scientific subjects living and working in developing countries. OWSD members can network face to face through activities organised by their National Chapters, or through regional and international conferences, as well as online at owsd.net.

OWSD also partners with the Elsevier Foundation to organize annual **Early Career Awards to Women Scientists**. The five awardees for 2025 were:

- **Manal Badrasawi** of the State of Palestine, health sciences and clinical nutrition;
- **Reem Obaydo** of the Syrian Arab Republic, green chemistry;
- **Alejandra Paniagua-Avila** of Guatemala, mental health and psychiatric epidemiology;
- **Sarmila Tandukar** of Nepal, environmental health and medical microbiology; and
- **Halima Sumayya Twabi** of Malawi, maternal and child health and behavioural studies.



GLOBAL ACADEMY NETWORKS

TWAS works in close association with several national science academies and international academy networks dedicated to advancing science in the developing world and promoting sustainable development.

The InterAcademy Partnership (IAP) is a long-time TWAS partner, with its secretariat hosted by TWAS in its offices in Trieste, Italy. IAP brings together some 150 national, regional and global member academies, which collaborate to support the vital role of science in seeking evidence-based solutions to the world's most challenging problems.

In particular, IAP harnesses the expertise of the world's leading scientific minds to advance sound policies, improve public health, promote excellence in science education, and achieve other development goals. Academy members constitute more than 30,000 leading scientists, engineers and health professionals in over 100 countries.

Here are some major accomplishments of IAP in 2025:

- IAP held its **Triennial Conference and General Assembly** in Cairo, Egypt, 8–11 December. The events were hosted by Egypt's Academy

of Science, Research and Technology [ASRT] under the auspices of the President of Egypt, Abdel Fattah el-Sisi. The conference, with the theme 'Bridging Science, Policy and Society in an Era of Transformation', attracted some 164 participants from 68 countries and featured more than 90 speakers. Topics covered included science diplomacy, trust in science, emerging technologies, engagement with gender equality, early-career researchers and cross-sector collaboration.

- The **International Urban Health Summit (IUHS)** was held in Hannover, Germany, on 9–11 April. Funded by the Volkswagen Foundation via a contribution to the Berlin-Brandenburg Academy of Sciences, IAP and its Urban Health Working Group, in collaboration with the International Society of Urban Health, played a key role in planning and delivering the event.
- In October 2025, IAP, in collaboration with the U.S. National Academies of Sciences, Engineering, and Medicine [NASEM], convened a **global workshop on sexual harassment of women in academia**. Hosted by the French Academy of Sciences, France, and supported by the Henry Luce Foundation, the workshop





▲ A session from the Triennial Conference and General Assembly in Cairo, Egypt, 8–11 December



brought together 21 scholars, practitioners and experts from 16 countries.

- In March 2025, IAP organized an **international workshop to advance research and policy solutions on wildfire risk assessment**, modelling and the role of artificial intelligence in understanding vulnerabilities of communities in Madrid, Spain.
- In 2025, IAP, building on its status as an **Observer of the Intergovernmental Panel on Climate Change (IPCC)**, launched a new collaboration with IPCC Focal Point for Italy, aimed at providing academies and climate researchers with information about the IPCC process—which is now in its seventh cycle, with its next major Assessment Report (AR7) due out in late 2028.

The Chinese Academy of Sciences (CAS)

is the hub of China's ambitious research enterprise, and it has long-standing ties with TWAS. CAS collaborates with TWAS on the six CAS-TWAS Centres of Excellence, and on the TWAS-CAS Young Scientists Award for Frontier Science. CAS also participates in a key PhD fellowship programme—the ANSO-CAS-TWAS/ UNESCO PhD Scholarship—and hosts TWAS Regional Partner for East and South-East Asia and the Pacific.

The Lincei Academy (Accademia Nazionale dei Lincei) was established in Italy in 1603,

and is today the cultural body of the highest level in the country. TWAS collaborates with Lincei, as the entire Trieste Science System and the University of Udine, on a three-month cooperation visits programme hosting developing world scientists in the Friuli Venezia Giulia Region, in Italy, to promote collaborative work related to achieving the United Nations Sustainable Development Goals.

The Academy of Science of South Africa (ASSAf)

is one of Africa's leading institutions advocating for science and technology, and hosts TWAS sub-Saharan Africa Regional Partner at its headquarters in Pretoria.

The Brazilian Academy of Sciences (ABC) is a longtime TWAS partner. It both hosts TWAS's Regional Partner for Latin America and the Caribbean and serves as a liaison between TWAS and the Brazilian government. In 2025, ABC and TWAS co-organized the 17th TWAS General Conference in Rio de Janeiro.

Academia Sinica of Taiwan, China, has for many years provided TWAS with financial support.

TWAS is also a member of the **International Science Council (ISC)**, an international non-governmental organization that brings together scientific institutions, including many science academies.



REGIONAL PARTNERS

TWAS partners in five regions of the developing world perform vital Academy functions.

They nominate scientists for TWAS awards and select Young Affiliates. They also organize conferences and raise awareness of TWAS and its programmes among scientists of their regions—in particular young scientists under 40—and help to advance support for science among policymakers and with the general public.

In 2025, the Regional Partner staff helped establish 430 new contacts. Each regional partner also organized at least two events, including a conference for young scientists, with a total of 21 events during the year, with the majority held in-person or in hybrid mode, and reaching 1,621 registered participants. Of these participants 780 (48%) were women, 160 (10%) were from Least Developed Countries, and 1,038 (64%) were young scientists under the age of 40. The Regional Partners also collaborate with the **TWAS Young Affiliates Network [TYAN]** to organize events and advance the careers of young scientists in the regions. In 2025, TWAS also invited Regional Partner coordinators to attend the 17th TWAS General Conference in Brazil in person at the end of September.

RIO DE JANEIRO, Brazil ●
Brazilian Academy of Sciences

The **Latin America and the Caribbean Regional Partner [TWAS-LACREP]**, assisted with the organization of the TYAN satellite meeting in São Paulo, Brazil held prior to the TWAS General Conference. They generously funded the cost of meals for a high number of participants while also assisting with the organization of the 17th TWAS General Conference in Rio de Janeiro, Brazil, where they provided logistical and administrative assistance, including the purchasing of flight tickets for some TWAS Fellows and Young Affiliates.

The **East and South-East Asia and the Pacific Regional Partner (TWAS-SAPREP)** and the CAS-TWAS Centres of Excellence advanced several initiatives throughout the year. Among them was a seminar on advanced technologies for water-environment governance in developing countries, a global disaster-risk-reduction dialogue at the International Symposium on Digital Earth, and the Digital Belt and Road Conference. Also, six centres jointly held the CAS-TWAS International Workshop on Climate Change Challenges and Sustainable Development in Beijing, bringing together young scientists from the Global South to address climate resilience and the Sustainable Development Goals.

The **Arab Regional Partner (TWAS-AREP)** partnered with the Center for Genomics at the Zewail City of Science, Technology and Innovation in Giza, Egypt, and the TWAS Advisory Committee on Pandemics to deliver a hybrid lecture by Islam Hussein on the development of an antibody. TWAS-AREP also celebrated 20 years of being hosted by the Bibliotheca Alexandrina's Center for Special Studies and Programs (BA/CSSP). To mark the anniversary, TWAS-AREP and the CSSP organized a series of activities aimed at recognizing Arab TWAS Fellows and Young Affiliates.

● **TRIESTE, Italy**
ICTP Campus

● **ALEXANDRIA, Egypt**
Bibliotheca Alexandrina

● **BEIJING, China**
Chinese Academy of Sciences

● **BANGALORE, India**
Jawaharlal Nehru Centre
for Advanced Scientific Research

● **PRETORIA, South Africa**
Academy of Science of South Africa

The **sub-Saharan Africa Regional Partner (TWAS-SAREP)**, co-hosted the 2025 Annual Young Scientists' Conference about climate change and well-being in Johannesburg with key South African science institutions, bringing together over 90 participants, chosen from a pool of 183 applications received from across Africa. Speakers emphasized Africa's disproportionate vulnerability to climate change, the need for transdisciplinary and community-engaged science, and the leadership role of young researchers. The programme included thematic breakaway sessions, a roundtable on climate resilience, training on predatory publishing, and opportunities for early-career scientists.

The **Central and South Asia Regional Partner (TWAS-CASAREP)** played an active role in major regional scientific events in 2025, beginning with its co-organization of the 3rd Pre-Summit of the World Summit on Disaster Management, which convened experts to address disaster-risk challenges in high-altitude regions. The programme also hosted an online Young Scientists' Lecture Series with the Indian Institute of Science on the science behind electric vehicles. In August, TWAS-CASAREP organized a three-day Young Scientists' Meeting in Bangalore on Earth system dynamics, attracting over 70 participants from 17 countries. The event emphasized gender inclusivity, interdisciplinary collaboration, and international exchange.

TWAS & ITALY

Since its inception in 1983, TWAS has maintained a close partnership with Italy. Through the Italian Ministry of Foreign Affairs and International Cooperation [MAECI], Italy provides core funding to the Academy, making its work to advance science in the developing world possible and facilitating an **innovation-friendly** policy ecosystem. Together, Italy and TWAS have helped developing countries build critical skills. TWAS also cooperates closely with the Academy's host region in north-eastern Italy, Friuli Venezia Giulia, as well as its host city, Trieste, which resides on the shore of the Adriatic Sea near the Italian border with Slovenia.

Here are highlights of the TWAS-Italy partnership in 2025:

TWAS co-organized a roundtable alongside IAP and OWSD on 26 September at the **14th edition of Trieste Next**, a science festival held annually in Trieste, Italy, since 2012. Titled 'Science and Technology: Changing Paradigms, Shaping Global Impact', the event drew more than 70 people for its audience.

The Academy's roundtable explored Artificial Intelligence (AI)'s potential to tackle some challenges of today's society, including how AI can be applied to manage environmental

problems and decision-making processes in medicine. Panellists for the roundtable included **Fetenech Meskele Ganebo** of Ethiopia, a TWAS-SISSA-Lincei fellowship awardee and professor of computer science at Wolaita Sodo University; **Tahsina Farah Sanam** of Bangladesh, an OWSD member and professor of technology management at the Bangladesh University of Engineering and Technology; and **Ahmed Hassoon** of the United States of America, a IAP Young Physician Leaders alumnus and professor of epidemiology and AI at the Johns Hopkins Bloomberg School of Public Health in Baltimore.

▼ Tahsina Farah Sanam, professor of technology management at the Bangladesh University of Engineering and Technology, Bangladesh, at Trieste Next. (Photo: F. Blasetti/ICTP)





▲ From left: Sandra Díaz, a professor of ecology at Córdoba National University in Argentina, and a TWAS Fellow since 2010, at Trieste Next. [Photo: F. Blasetti/ICTP]

A visit of participants in the TWAS-SISSA-Lincei Research Cooperation Visits Programme, from left: Kawchar Patwary Department of Physics, Comilla University, Comilla, Bangladesh, and Andrea Vacchi, Professor with the Italian National Institute for Nuclear Physics [INFN] - Trieste Laboratory, Italy; Umberta Tinivella, Principal Investigator, Geophysical Section, National Institute of Oceanography and Applied Geophysics [OGS], Trieste, Italy, and Aminou Issoufou, Abdou Moumouni University, Niamey, Niger. [Photo: G.Ortolani/TWAS]

Also at Trieste Next, TWAS, IAP, OWSD, and the Abdus Salam International Centre for Theoretical Physics [ICTP], shared a publicly open gazebo reflecting their common goals of global science for a sustainable future. At the gazebo, middle school students participated by conducting interviews with roundtable panellists Hassoon and Sanam as well as Argentinian TWAS Fellow Sandra Díaz.

TWAS also joined SHARPER—an Italian project backed by the European Commission—for the 2025 European Researchers' Night. A member of the TWAS Science Diplomacy team held a presentation on the role of science diplomacy within the Trieste Science System and its importance, especially for developing countries.

TWAS also held a roundtable called 'Climate Crisis: Women and Human Rights', at the annual International Symposium **GeoAdriatico** in Trieste on 14 June, organized by Cinzia Vitale Onlus. The event underlined how climate change disproportionately affects women, exacerbating

existing inequalities and threatening human rights globally. It also showcased TWAS's 'Project Grants for Gender Equity and Climate Action', which support innovative projects aimed at empowering women in climate resilience efforts.

Also, on 21 May 2025, TWAS invited six young scientists from Bangladesh, Madagascar, Nepal, Niger, and Rwanda, to visit the secretariat in Trieste. They presented the results of their research stays, obtained through the **TWAS-SISSA-Lincei Research Cooperation Visits Programme**, and were joined by their local supervisors.

The programme, which stems from a partnership among TWAS, the Italian Accademia Nazionale dei Lincei and the International School for Advanced Studies [SISSA], offers three-month visits at scientific institutions within the Scientific and Innovation System of Friuli-Venezia Giulia [SiS FVG]. During this time frame, the young scientists carry out research, receive training, and establish collaborations. The programme is supported by MAECI and the Italian Agency for Development Cooperation.

Finally, Congolese scientist **Asengo G. Mabia**, who completed a research stay at the University of Trieste through the TWAS-SISSA-Lincei Research Cooperation Visits Programme, received the **2025 Eni Award for Young Talents from Africa** from Italian President Sergio Mattarella on 8 October 2025. His work focuses on improving waste management and sanitation in developing countries, helping agricultural and food systems become more sustainable and efficient.

Through initiatives of this kind, young African researchers not only develop scientific competence, but also learn the value of collaboration and global solidarity in building a sustainable future.

Asengo G. Mabia, Congolese scientist, recipient of the 2025 Eni Award for Young Talents from Africa and a researcher at the Institut National Polytechnique Félix Houphouët-Boigny in Côte d'Ivoire

A STORY TO COMMUNICATE

To have an impact on global science and policy, TWAS must convey its ideas and work to an international audience that includes not just scientists, but policymakers, journalists, educators, students, and the general public. Through its social media channels and newsletters, in 2025 TWAS reached out to an audience of over 80,000, including more than 1,000 journalists.

For over a decade, a key part of TWAS communications strategy has been the use of digital tools. The Academy's website, twas.org, features a mix of articles and announcements about the Academy's activities. TWAS also increasingly made use of professionally crafted digital video interviews and photos to promote its programmes and events to an audience on **social media**.



◀ The banner from TWAS Opportunity Corner, the Academy's LinkedIn newsletter, from September 2025.

► A TWAS video, published on YouTube and social media, showing an interview with TWAS Apex Award recipient Luiz Davidovich that took place during the 17th TWAS General Conference in Rio de Janeiro, Brazil.

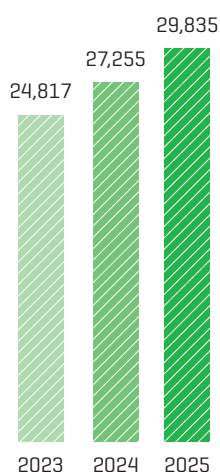


TWAS communicates on platforms including Facebook, LinkedIn, X, Flickr, and YouTube, as well as an electronic bulletin **TWAS Plus**. Anyone interested can [subscribe to TWAS Plus](#) for free.

Consistent with recent years, TWAS experienced particular success in 2025 on LinkedIn, the professional social network, where ambitious scientists often follow the TWAS

account for notices on its various opportunities. This includes the second year of the LinkedIn newsletter TWAS Opportunity Corner, which promotes the Academy's opportunities on the platform.

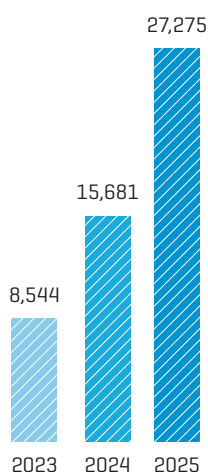
Facebook



FOLLOWERS

+ 20.2%

LinkedIn



FOLLOWERS

+ 219.2%

From 1 January to 31 December each year.



The Academy also runs its own quarterly Newsletter, which communicates with TWAS membership and partners about its programmes and activities. In 2025, the **TWAS Newsletter**, which is digital, communicated with its audience direct to their email inboxes in an engaging format.

TWAS was also an active member of the communication group of the Scientific and Innovation System of Friuli Venezia Giulia [SiS FVG].

In 2025, the TWAS Public Information Unit also produced the **2024 Annual Report**.

FINANCIAL REPORT 2025

Starting in 2020, it was decided that the financial report for each odd-numbered year would cover two years, to bring it in line with UNESCO budget cycle.

During 2024–2025, TWAS received a total of \$10,636,058.69 in funding, including \$1,653 in individual contributions. TWAS is grateful for the generous contributions from its numerous supporters. Their support helps make the Academy's critical work in the developing world possible.

2025 FINANCIAL REPORT (IN USD)

INCOME ¹	
Balance brought forward 01.01.2024	4,480,904.03
1) Ministry of Foreign Affairs and International Cooperation [MAECI] and other governmental entities, Italy	3,890,772.71
2) Swedish International Development Cooperation [Sida], Sweden	2,821,663.19
3) Elsevier Foundation, Kingdom of the Netherlands	110,000.00
4) Academia Sinica, Taiwan, China	100,000.00
5) Ministry of Science, Technology and Innovation [MCTI], Brazil	85,933.72
6) American Association for the Advancement of Science, the United States of America	36,000.00
7) The Searle Company Ltd., Pakistan	14,039.16
8) Quarraisha Abdool Karim, South Africa	14,000.00
9) Lenovo Group Limited, China	13,910.00
10) Siwei Cheng Foundation	12,878.18
11) Fayzah M.A. Al-Kharafi, Kuwait	12,000.00
12) Samira Omar Asem, Kuwait	12,000.00
13) National Agency for Research and Development [ANID], Chile	10,000.00
14) Other miscellaneous income	1,517.70
15) Net transfer to TWAS Endowment Fund	[1,625,768.00]
16) Transfer to TWAS Reserve Fund	[150,000.00]
17) Investment Revenue	796,208.00
TOTAL INCOME	10,636,058.69

¹ All contributions are expressed in US dollars and have been converted using the United Nations official rate of exchange in effect at the time the contributions were received.

EXPENDITURE	App. Budget	Rev. Budget	Expenditure
1) Awards			
1.1) TWAS Apex Award	0.00	100,000.00	100,000.00
1.1.1) Award costs	0.00	100,000.00	100,000.00
1.1.2) Other costs	0.00	0.00	0.00
1.2) TWAS Awards	101,800.00	101,800.00	100,424.00
1.2.1) Award costs	90,000.00	90,000.00	90,000.00
1.2.2) Other costs	11,800.00	11,800.00	10,424.00
1.3) Fellows Awards	84,300.00	84,300.00	78,955.55
1.3.1) Award costs	61,000.00	61,000.00	61,000.00
1.3.2) Other costs	23,300.00	23,300.00	17,955.55
1.4) TWAS - Siwei Cheng Award in Economic Sciences	12,149.00	12,149.00	10,000.00
1.4.1) Award costs	10,000.00	10,000.00	10,000.00
1.4.2) Other costs	2,149.00	2,149.00	0.00
Sub-Total for [1]	198,249.00	298,249.00	289,379.55
2) Capacity Building in STLCs			
2.1) Research Grants	2,546,043.00	2,446,043.00	2,364,642.67
2.1.1) Activities	2,134,000.00	2,034,000.00	1,962,656.31
2.1.2) Implementation costs	412,043.00	412,043.00	401,986.36
2.2) Regional Partners	0.00	0.00	0.00
2.3) Science Diplomacy	25,000.00	25,000.00	23,003.56
2.4) Communication	2,000.00	2,000.00	1,000.00
2.5) Climate PhD Scholarships and IPCC Network	536,332.00	466,332.00	380,948.92
2.5.1) Activities	120,000.00	120,000.00	77,723.36
2.5.2) Implementation costs	131,332.00	131,332.00	108,928.10
2.5.3) Activities with IPCC	140,000.00	70,000.00	62,071.76
2.5.4) Additional Implementation Costs	145,000.00	145,000.00	132,225.70
2.6) Support to African scientists	1,490,000.00	1,490,000.00	1,273,859.76
2.6.1) Activities	1,300,000.00	1,300,000.00	1,169,858.00
2.6.2) Implementation costs	190,000.00	190,000.00	104,001.76
Sub-Total for [2]	4,599,375.00	4,429,375.00	4,043,454.91
3) Fellowships, Associateships and Professorships			
3.1) Fellowship Programmes	375,000.00	445,000.00	382,005.13
3.2) Associateship, Professorship & Visiting Programmes	610,000.00	655,000.00	588,440.61
Sub-Total for [3]	985,000.00	1,100,000.00	970,445.74
4) Meetings			
4.1) Council and General Meetings	180,000.00	180,000.00	97,671.11
4.2) Steering committee and other official meetings	20,000.00	20,000.00	11,664.63
4.3) Local activities to promote science	10,000.00	10,000.00	7,419.42
4.4) Official visits to TWAS	20,000.00	20,000.00	11,132.37
Sub-Total for [4]	230,000.00	230,000.00	127,887.53
5) Publications			
5.1) Publications	40,000.00	20,000.00	13,196.46
5.2) Other costs	10,000.00	10,000.00	0.00
Sub-Total for [5]	50,000.00	30,000.00	13,196.46

Continue next page

EXPENDITURE	App. Budget	Rev. Budget	Expenditure
6] Joint Projects			
6.1] TWAS Regional Partners	125,000.00	110,000.00	107,515.31
6.2] Science Diplomacy Programme	54,900.00	54,900.00	45,801.75
6.3] Gender Equity and Climate	227,200.00	227,200.00	201,656.22
6.3.1] <i>Symposium, Fellowships and South-North</i>	<i>175,500.00</i>	<i>175,500.00</i>	<i>154,943.87</i>
6.3.2] <i>Other costs</i>	<i>51,700.00</i>	<i>51,700.00</i>	<i>46,712.35</i>
6.4] Collaboration with ICTP activities	30,000.00	30,000.00	308.73
6.5] Young Affiliates Network	150,000.00	150,000.00	86,249.32
6.5.1] <i>Activities</i>	<i>130,000.00</i>	<i>130,000.00</i>	<i>86,249.32</i>
6.5.2] <i>Other costs</i>	<i>20,000.00</i>	<i>20,000.00</i>	<i>0.00</i>
6.6] Coffee Research Conference	20,000.00	0.00	0.00
6.7] Solar Radiation Management	25,000.00	25,000.00	23,995.86
6.7.1] <i>Activities</i>	<i>25,000.00</i>	<i>25,000.00</i>	<i>23,995.86</i>
Sub-Total for [6]	632,100.00	597,100.00	465,527.19
7] Operational Expenses			
7.1] Staff costs	2,850,000.00	2,850,000.00	2,696,470.67
7.2] ICTP services	300,000.00	300,000.00	260,752.09
7.3] Communications	10,000.00	10,000.00	3,285.33
7.4] Strategic communications	70,000.00	80,000.00	76,672.00
7.5] Travels	36,000.00	36,000.00	23,871.13
7.6] Fundraising activities	20,000.00	20,000.00	9,084.19
7.7] Library, office and other supplies	20,000.00	20,000.00	19,833.82
7.8] Other general operating expenses	40,000.00	40,000.00	37,095.20
Sub-Total for [7]	3,346,000.00	3,356,000.00	3,127,064.43
Management Costs	702,851.00	702,851.00	632,586.93
Total Expenditure	10,743,575.00	10,743,575.00	9,669,542.74
Savings on prior years' obligations			866,739.32
Excess of income over expenditure			1,833,255.27
Reserve Fund²			
Amount available at the beginning of period			1,361,766.43
Transfer from TWAS main account			150,000.00
Transfer from OWSD reserve fund			56,000.00
Net Savings on end-of-service entitlements			100,239.84
Reserve Fund balance end of period			1,668,006.27

² The purpose of the Reserve Fund is to cover the end-of-service entitlements of TWAS staff.

TWAS ENDOWMENT FUND 1994–2025³ (IN USD)

ORGANIZATIONS	CONTRIBUTIONS RECEIVED
1] Ministry of Sciences and Technology, China	2,200,000
2] Ministry of Science and Technology, Brazil	1,933,107
3] Department of Science and Technology, India	1,000,000
4] National Science and Technology Council, Mexico	739,155
5] Academia Sinica, Taiwan, China	608,915
6] Ministry of Science and Technology, Nigeria	586,779
7] Kuwait Foundation for the Advancement of Sciences (KFAS), Kuwait	500,000
8] Ministry of Research, Science and Technology, Islamic Republic of Iran	269,183
9] Mohammad Ahmad Hamdan, Jordan	171,000
10] Ministry of Science, Technology and Innovation, Malaysia	100,000
11] Ministry of Science and Technology, Pakistan	100,000
12] Secretariat of Science, Technology and Production Innovation, Argentina	55,000
13] Ministry of Modernization and Technology, Senegal	52,887
14] Administrative Department of Science, Technology and Innovation (COLCIENCIAS), Colombia	50,000
15] Ministry of Higher Education and Scientific Research, Egypt	50,000
16] Atomic Energy Commission of Syria, Syrian Arab Republic	50,000
17] Ministry of Finance and Economic Planning, the Sudan	49,850
18] Vietnam Centre for Science and Technology Evaluation, Viet Nam	20,000
19] National Academy of Science and Technology, the Philippines	11,957
20] Ministry of Science and Technology, Bangladesh	10,000
21] Ministry of Education, Science and Technology, the United Republic of Tanzania	4,529
22] Shui-Chin Lee Foundation for Basic Science, Taiwan, China	4,000
23] Swedish Council for Higher Education, Sweden	1,302
24] Office of the Prime Minister, Jamaica	1,000
25] Venezuelan Institute for Scientific Research (IVIC), Venezuela	300
Subtotal	8,568,964
<i>Plus other contributions⁴</i>	196,697
<i>Plus interest earned</i>	9,715,606
<i>Net transfer to TWAS Fund (2011–2025)</i>	0
TOTAL	18,481,267

³ The aim of establishing this endowment fund was to build a capital of \$25 million to cover the secretariat costs and basic programmes.

⁴ This amount comprises donations from TWAS Fellows, individuals and other organizations' contributions [see separate list, next page].

**CONTRIBUTIONS OVER \$1,000 TO THE ENDOWMENT FUND FROM TWAS FELLOWS,
YOUNG AFFILIATES, AND OTHER MISCELLANEOUS (1994-2025)**

Wook Hyun Kwon, Republic of Korea	30,000	Jih Ru Hwu, Taiwan, China	1,030
Bai Chunli, China	21,770	ANSTS, Senegal	1,029
M.H.A. Hassan, the Sudan	13,104	A. Kornhauser, Slovenia	1,000
J. Palis, Brazil	10,079	A.O. Kuku, Nigeria	1,000
Science Initiative Group, the United States of America	6,250	CAPRISA, South Africa	1,000
J.I. Vargas, Brazil	5,287	E.M. Essien, Nigeria	1,000
S.S. Katiyar, India	4,100	G.S. Khush, the Philippines	1,000
A.V. Rama Rao, India	3,000	G.T. Prance, the United Kingdom of Great Britain and Northern Ireland	1,000
A. Hamoui, Syrian Arab Republic	2,500	H.E. Varmus, the United States of America	1,000
M. Peimbert, Mexico	2,500	I. Eltayeb, Oman	1,000
Lu Yong Xiang, China	2,300	I. Serageldin, Egypt	1,000
P. McGrath, the United Kingdom of Great Britain and Northern Ireland	2,046	J. Huang, China	1,000
M. Iqbal Parker, South Africa	2,000	J.L. Moran Lopez, Mexico	1,000
B.N. Upreti, Nepal	1,934	K.E. Mshigeni, the United Republic of Tanzania	1,000
K. Namsrai, Mongolia	1,858	Lee Wu Yan-Hwa, Taiwan, China	1,000
Phillip A. Griffiths, the United States of America	1,750	M. Klein, the United States of America	1,000
A. Paulraj, the United States of America	1,736	P. Littlewood, the United Kingdom of Great Britain and Northern Ireland	1,000
Harald Fuchs, Germany	1,703	Pei Gang, China	1,000
Fuchu He, China	1,620	R. Murenzi, the United States of America/Rwanda (KIST)	1,000
Anil Jain, the United States of America	1,441	S.Q. Mehdi, Pakistan	1,000
R. Miledi, the United States of America	1,320	Sang-Dai Park, Republic of Korea	1,000
L.N. Johnson, the United Kingdom of Great Britain and Northern Ireland	1,281	Wong Henry Nai Ching, China	1,000
J. Garidkhuu, Mongolia	1,221	Y. Sobouti, Islamic Republic of Iran	1,000
F. El-Baz, Egypt	1,200	Y. Yuthavong, Thailand	1,000
C.N.R. Rao, India	1,131	Yam Vivian Wing-Wah, China	1,000
E.W. Thulstrup, Denmark	1,062	Combined donations under 1,000	46,400
A. Badran, Jordan	1,045	TOTAL	196,697

Every donation, large or small, directly supports the advancement of science, engineering and technology in developing nations and demonstrates commitment to the Academy's vital mission. To make a donation, please visit www.twas.org/support-twas

NEW TWAS FELLOWS ELECTED IN 2025

Agriculture, Nutrition and Food Systems Sciences

- HUANG, Sanwen [China]
- SILVA-FILHO, Marcio [Brazil]
- SINGH, Narpinder [India]
- SINGH, Zora [Australia]
- WONG, Mui Yun [Malaysia]

Biological Sciences

- ABDEL MONEIM, Ahmed [Egypt]
- BHUIYAN, Md Taufiqur Rahman [Bangladesh]
- HASSAN, Mohamad Ali [Malaysia]
- PUJOL, Flor Helene [Venezuela]
- RÍOS TOUMA, Blanca Patricia [Ecuador]
- SHUKLA, Arun [India]
- SINGH, Anjana [Nepal]
- TSAY, Yi-Fang [Taiwan, China]
- VASCONCELOS RIBEIRO, Ana Tereza [Brazil]

Medical and Health Sciences

- CHEONG, Sok Ching [Malaysia]
- FAROMBI, Ebenezer Olatunde [Nigeria]
- GARCIA-RIVERA, Dagmar [Cuba]
- HUANG, Xiaojun [China]
- MAHTAB, Mamun Al [Bangladesh]
- NARDI, Antonio Egidio [Brazil]
- PRINCE, Sharon [South Africa]
- REZAEI, Nima [Islamic Republic of Iran]
- SONGSIVILAI, Sirirung [Thailand]
- SWAMINATHAN, Soumya [India]
- THABANE, Lehana [Canada]
- TIRADO, Noemi Sandra [Plurinational State of Bolivia]

Chemical Sciences

- AMIN IBRAHIM SHENDI, Amal [Egypt]
- ANAND, Ruchi [India]
- EDDAOUDI, Mohamed [Saudi Arabia]
- GARCIA RIVERA, Daniel [Cuba]
- HEMMATEENEJAD, Bahram [Islamic Republic of Iran]
- HUNG, Shang-Cheng [Taiwan, China]
- MPIANA, Pius Tshimankinda [the Democratic Republic of the Congo]
- ROSSI, Liane Marcia [Brazil]
- YOUSUF, Sammer [Pakistan]
- ZHANG, Suojia [China]

Engineering Sciences

- DUAN, Huiling [China]
- GOVINDARAJAN, Rama [India]
- LIU, Changsheng [China]
- MITRAGOTRI, Samir Suresh [the United States of America]
- MUDALI, U. Kamachi [India]
- RAMESH, Singh [Malaysia]
- ROSEI, Federico [Canada]
- WOAFU, Paul [Cameroon]

Information and Data Sciences and Technologies

- LUDERMIR, Teresa Bernarda [Brazil]
- MEYER, Thomas Andreas [South Africa]

Earth, Climate and Environmental Sciences

- ASRAT, Asfawossen Kassaye [Botswana]
- BALASUBRAMANIAN, Rajasekhar [Singapore]
- CARDIA SIMÕES, Jefferson [Brazil]
- DI, Qingyun [China]
- FANG, Xiaomin [China]
- KUMAR, Prakash [India]

Mathematical Sciences

- BAO, Gang [China]
- DE FIGUEIREDO, Celina Miraglia Herrera [Brazil]
- NGO, Bao Chau [the United States of America]

Physics, Astronomy and Space Sciences

- CRISPINO, Luís Carlos Bassalo [Brazil]
- GLEDHILL, Irvy Marian Archibald [South Africa]
- MINDLIN, Gabriel [Argentina]
- MOHANTY, Ajit Kumar [India]
- RAO, Sumathi [India]
- ZHAO, Gang [China]

Economic and Social Sciences, Humanities and Arts

- KWAN, Mei-Po [China]
- OOI, Keng Boon [Malaysia]

TWAS YOUNG AFFILIATES SELECTED IN 2025

Sub-Saharan Africa

- BANDA, Annabel [Zimbabwe]
- NDOMBI AVOUBA, Fabrice Gilles [the Republic of the Congo]
- OLUWAFEMI, Funmilola Adebisi [Nigeria]
- SECK, Mane [Senegal]
- SOUBEIGA, Ragna Gnewende Serge Theophile [Burkina Faso]

Arab Region

- ALDAHDOOH, Majed A. A. [State of Palestine]
- MAHMOUD, Khadejah F. [Jordan]
- TAHA, Eman Omar [Egypt]
- TAMERSIT, Khalil [Algeria]

Latin America and the Caribbean

- DIELE VIEGAS COSTA SILVA, Luisa Maria [Brazil]
- FERREIRO BALBUENA, Omayra Beatriz [Paraguay]
- JIMÉNEZ ANDRADE, Eric Faustino [Mexico]
- MONTELLANO DURAN, Natalia [Plurinational State of Bolivia]
- UMANZOR BONILLA, Vilma Alejandra [Honduras]

East and South-East Asia and Pacific

- AZHARI, Azilyana [Malaysia]
- FAREA, Maamon Omar Ahmed [Malaysia]
- HUANG, Yuhong [China]
- NGUON, Samnang [Cambodia]

Central and South Asia

- DEVI, Pooja [India]
- GÖKSEN, Gülden [Türkiye]
- KALANSURIYA, Pabasara [Sri Lanka]
- KHALIL, Ali Talha [Pakistan]
- THAPA, Raj Kumar [Nepal]

AWARDS CONFERRED IN 2025

TWAS Apex Award

- DAVIDOVICH, Luiz [Brazil]

TWAS Medal Lectures [combined 2024-2025]

- BAHRI, Akiça [Tunisia]
- DAVIDOVICH, Luiz [Brazil]
- LI, Yin [China]
- MALCOM, Shirley [the United States of America]
- ZEILINGER, Anton [Austria]

TWAS-Abdool Karim Award in Biological Sciences

- ABDOUL-LATIF, Fatouma Mohamed [Djibouti]

TWAS-Fayzah M. Al Kharafi Award

- KAKOOZA, Angelina Mwesige [Uganda]

TWAS-Samira Omar Innovation for Sustainability Award

- DESTA, Adey Feleke [Ethiopia]

TWAS-Atta-ur-Rahman Award

- MEHLANA, Gift [Zimbabwe]

TWAS-CAS Young Scientists Award for Frontier Science in Life Sciences

- BISWAS, Kanishka [India]

OWSD-Elsevier Foundation Awards for Early-Career Women Scientists in the Developing World

- BADRASAWI, Manal [State of Palestine]
- OBAYDO, Reem [Syrian Arab Republic]
- PANIAGUA-AVILA, Alejandra [Guatemala]
- TANDUKAR, Sarmila [Nepal]
- TWABI, Halima Sumayya [Malawi]

TWAS SECRETARIAT

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Senior Assistant: Sandra Ravalico
Vanessa Varnier

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Diana Solitro
Paola Vespa

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Erin Johnson
Giulia Pizzolini (from July)
Zabeeh Ullah Sahil (until May)
Giulia Signori

InterAcademy Partnership (IAP)

Coordinator: Peter McGrath
Sabina Caris
Lucia Fanicchi
Katharina Kölbl (from September)
Sofia Nitti (until June)
Sheila Perosa (until December)

For specific contact details, see:
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TWAS ANNUAL REPORT 2025

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German Research Foundation (DFG), Germany

Swedish International Development Cooperation Agency (Sida), Sweden

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David and Lucile Packard Foundation, the United States of America

Academia Sinica, Taiwan, China

Ministry of Science, Technology and Innovation (MCTI), Brazil

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The Searle Company, Ltd., Pakistan

Lenovo Group Ltd., China

Siwei Cheng Foundation, China

National Agency for Research and Development (ANID), Chile



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