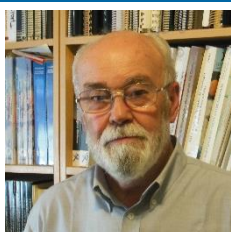




LIST OF PARTICIPANTS

S20 MEMBERS/DELEGATES

ARGENTINA National Academy of Exact, Physical and Natural Sciences

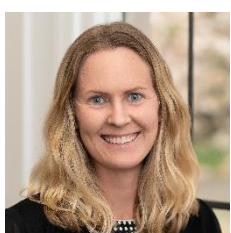


Victor A. Ramos is Emeritus Professor of the University of Buenos Aires, Researcher Emeritus of the Scientific and Technical Research Council and president of the National Academy of Exact, Physical and Natural Sciences of Argentina. He graduated from the University of Buenos Aires and has carried out postdoctoral studies in Europe and the USA as a Guggenheim Fellow. He has dedicated more than 60 years to understanding the geological evolution of the Andes and his contributions were recognized by several institutions. He has been named an honorary member of the Geological Society of America. He is a foreign member of the National Academy of Sciences, the World Academy of Sciences, the Latin American Academy of Sciences and the Academies of Sciences of Chile, Brazil, and Argentina. Among other distinctions, he has received the Bunge y Born 2009 award, the Mexico 2013 award, Konex de Platino 2013, Lenovo Science Prize 2017 from the TWAS, Leopold von Buch 2023 from the Deutsche Geologische Gesellschaft – Geologische Vereinigung, among others. He has published more than a hundred works on the geological evolution of various sectors of South America, mainly on Andean Tectonics. He has supervised more than 40 doctoral theses.

AUSTRALIA Australian Academy of Science



Surinder Singh is Chief Research Scientist based at the Commonwealth Scientific and Industrial Research Organisation (CSIRO) Agriculture and Food and Nourish Ingredients in Canberra, Australia. He has pioneered the successful genetic modification of fatty acid composition in the seeds of canola so that they produce large amounts of the long-chain omega-3 oils that are essential for human health. He has contributed to the development of highly stable safflower oil for industrial applications and the fatty acid metabolism in the leaves of certain crops to produce large amounts of valuable oils that are useful for food and industrial applications. Both omega-3 canola crop and safflower crops are in commercial production putting Australia at the forefront of bringing metabolically engineered oilseed crops to market. Dr Singh is also involved in developing fats and oils for food via fermentation platforms at Australian start up Nourish Ingredients. Dr Singh was ranked in the Top 10 translational researchers for 2014 by Nature Biotechnology. He has more than 100 granted patents. He has 125 peer reviewed publications with total citations of 14090 and h-index of 59. He is a Fellow of Australian Academy of Science and Australian Academy of Technological Sciences & Engineering.



Lynn Allan is the International Events and Project Coordinator at the Australian Academy of Science. Lynn coordinates international activities for the Academy, working closely with international partners, Australian diplomatic missions overseas and foreign diplomatic missions in Australia to discuss science policy matters, facilitate scientific exchanges and coordinate international workshops and meetings to promote strategic partnerships between Australian and overseas researchers. Lynn has diverse community engagement experience, including at an Australian diplomatic mission, local government and the for-purpose sector. Lynn holds a Bachelor of Communication Studies Degree and Graduate Diploma in International Development.

BRAZIL

Brazilian Academy of Sciences



Helena B. Nader is Chair of the S20 Brasil 2024. Professor Emeritus at the Escola Paulista de Medicina of the Federal University of São Paulo (Unifesp), she obtained her PhD at Unifesp and post-doctoral training as a Fogarty (NIH) fellow at the University of Southern California. Since 1985, she is a 1A (highest level) research fellow of the National Research Council for the Scientific and Technological Development (CNPq). She serves as president of the Brazilian Academy of Sciences (ABC), co-chair of the Inter-American Network of Academies of Sciences (IANAS), vice-president for the Latin America and the Caribbean of The World Academy of Sciences (TWAS), vice-president of the Alliance of National and International Science Organizations for the Belt and Road Regions (ANSO), Governing Board member of the International Science Council (ISC), Advisory Committee member of the InterAcademy Partnership (IAP), and Strategic Committee member of the Science Panel for the Amazon (SPA). She is member of the ABC, TWAS, and the Latin America Academy of Sciences (ACAL). Former president of the Brazilian Society of Biochemistry and Molecular Biology, she is honorary president, former vice-president and former president of the Brazilian Society for the Advancement of Science (SBPC).



Alvaro Toubes Prata is Coordinator of the S20 Brasil 2024 Task Force “Energy Transition Process: renewable energies, social and economic considerations”. He is full professor at the Mechanical Engineering Department at the Federal University of Santa Catarina (UFSC). He has a degree in Mechanical Engineering and Electrical Engineering from the University of Brasilia, a master's degree in Mechanical Engineering from UFSC and a PhD in Mechanical Engineering from the University of Minnesota. At UFSC since 1978, he works in undergraduate and graduate courses, coordinating teaching, research and extension projects. From 2000 to 2004, he was dean of research and postgraduate studies, and from 2008 to 2012 he was dean of UFSC. He was National Secretary for Technological Development and Innovation (May 2012 to September 2014, and June 2016 to January 2018), National Secretary for Research and Development Policies and Programs (February 2018 to December 2018) and Executive Secretary (September 2014 to April 2015) of the Ministry of Science, Technology and Innovation. He is a full member of the Brazilian Academy of Sciences and the National Academy of Engineering. His research areas are heat transfer and fluid mechanics.

CANADA

Royal Society of Canada



Darren Gilmour is Executive Director of The Royal Society of Canada. Raised in New Brunswick, Canada, Darren did his graduate work in Nairobi, Kenya, prior to becoming Executive Director of the RSC in 2008. During the time of Darren's leadership, the RSC has acquired and renovated its first permanent home, created the RSC College, and mobilized over 700 independent experts in support of Canada's response to and recovery from the COVID-19 pandemic.

CHINA

Chinese Academy of Sciences



Youdan Xiao is Professor at Institutes of Science for Development, Chinese Academy of Science (CASISD), and the head of research on science and technology policy. He is also Principal Professor and Deputy dean in School of Public Policy and Management, University of Chinese Academy of Sciences. His research interests focus on Interdisciplinary issues of science, technology and law. In the past five years, Prof. Xiao has published more than 50 academic papers and 5 books, including Research on Open Innovation and Intellectual Property Rights System, Intellectual Property Management of Public Research Institutions in China, China's Technology Transfer and Commercialization System: Laws, Policies and their Practices. As an Legislative Consultant, Prof. Xiao has been involved in some state-level law-making, including the China's National Intellectual Property Strategy, the Amendment of Promoting Technology Transfer and Commercialization Law, Patent law of China, Law on Sciences and Technology Progress law, National Regulations on Safety Administration of Biotechnology Research and Development, Statutes of Chinese Academy of Sciences.



Dongyao Wang is the Deputy Director of the Division of International Organization Programmes, Bureau of International Cooperation, Chinese Academy of Sciences (CAS). Ms. Wang obtained her Master's Degree of Science from the School of Chemistry in the University of Leeds in 2004. She has been working at the Bureau of International Cooperation of CAS for more than 15 years and has rich experience in facilitating bilateral and multi-lateral Science and Technology cooperation. Now Ms. Wang is also working for the East and South-East Asia and the Pacific Regional Partner (SAPREP) of the World Academy of Sciences (TWAS) as the major contact person. Ms. Wang is the Full Member of the Organization for Women in Science for the Developing World (OWSD).

FRANCE

Académie des Sciences



Francis André Wollman is Vice President Foreign Secretary of the Académie des sciences (France). He is Emeritus Research Director at the Centre National de la Recherche Scientifique (CNRS) and European Molecular Biology Organization (EMBO) member. Since the mid-seventies, he developed his research in Paris at the Institut de Biologie Physico-Chimique (IBPC), of which he was appointed Director for a ten-year term in 2007. His research focuses on the biogenesis, regulation and evolution of oxygenic photosynthesis using genetics of the microalga *Chlamydomonas reinhardtii*, for biophysical, biochemical and structural studies. Wollman and his team provided a dynamic view of chloroplast gene expression, enabling photosynthesis to be highly responsive to an ever-changing environment through its bioenergetic integration and metabolic flexibility. Thus, much of his research has focused on the way the environment impacts the production of bioenergy.

GERMANY

German National Academy of Sciences Leopoldina



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Ruth Narmann is Head of the International Relations Department of the German National Academy of Sciences Leopoldina. She is responsible for coordinating Leopoldina's input for the annual G7- and G20-scientific policy advice activities and supervises the international formats of the academy. Dr. Narmann joined Leopoldina in 2011. Before that, she gained extensive experience in international science and research management, e.g. at German Research Foundation (DFG) or the Leibniz Association. Dr Narmann studied Chinese Studies, American Studies, and Speech Communication and Rhetoric at the University of Tübingen (Germany), National Political University (Taipeh, R.O.C.) and Yale University (New Haven, USA). She received her PhD from the University of Tübingen.

INDIA

Indian National Science Academy



Ashutosh Sharma is Institute Chair Professor at IIT Kanpur, President of the Indian National Science Academy (2023-2025), was Co-chair of S20/G20 and a former Secretary to the Government of India heading its Department of Science and Technology (2015-2021). He was a Professor (1997-), and the Head (2003-05) of Chemical Engineering, and the founding Coordinator of Nanosciences Center and Advanced Imaging Center at the Indian Institute of Technology at Kanpur. Ashutosh received his PhD from the State University of New York at Buffalo (SUNYAB; 1988) working with Prof. Eli Ruckenstein – a recipient of the US Medal of Science, his MS from the Pennsylvania State University (1984) and B.Tech. from IIT Kanpur (1982). Ashutosh's research contributions are highly interdisciplinary, spanning a wide range in nanotechnology; thin polymer films; nanocomposites and devices in energy, health and environment; functional interfaces; micro/nano-mechanics of soft matter; nano-patterning and nanofabrication; colloid and interfacial engineering; biomaterials & biosurfaces; wetting and adhesion. Ashutosh is an elected Fellow of The Indian National Science Academy, and Indian National Academy of Engineering, The World Academy of Sciences (TWAS). He has been an associate editor of ACS Applied Materials and Interfaces and several other journals. Ashutosh's other interests are in ancient history and philosophy.



Tata Narasinga Rao received his Ph.D. degree in Chemistry from Banaras Hindu University, India in 1994. After working at IIT Madras as Research Associate, he moved to The University of Tokyo in 1996 as a JSPS post-doctoral fellow and subsequently became lecturer in the same University in 2001. He joined International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad, India, in 2003 as senior scientist, and presently he is the Director of ARCI. In addition, he is also Adjunct Professor at IIT-Hyderabad and NIT-Warangal. He is recipient of several awards and honors. More recently, Dr. Rao has been admitted as Fellow of Royal Society of Chemistry through "Leaders in the Field" scheme and awarded with "Honorary Fellowship of the Electrochemical Society of India for the year 2023". He has filed/granted more than 20 international and Indian patents several of which have been

translated to technological developments. Dr. Rao has been a member of several project assessment / standardization and governing board committees at national level. He is known for his translational nanomaterials research. Six of the technologies developed by his team are transferred to industry and commercialized. Most notable technology transfer is the process know how for LiFePO₄, which was transferred to an Indian Industry for the first time in India.



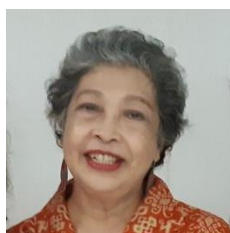
Manoranjan Mohanty is Doctorate in Seismology with specialization in Seismic Hazard Assessment. He has been working in the Department of Science and Technology (DST), Ministry of Science and Technology, Government of India for the last 26 years. He looked after the R&D funding program of DST related to Earth Sciences including seismology under Science and Engineering Research Board, a statutory body under DST, Government of India, New Delhi. The nature of the job under the above program is to promote S&T in the country, particularly research in new and promising areas of Earth Sciences and to manage these programs in a way so that significant impact is made at national and international level. Now he is working as Scientist -G and heading the Autonomous Institutions Division of DST. He facilitates administrative support to nurture the 25 Autonomous Institutions and Professional Bodies under the administrative control of DST. Dr. Mohanty is also spearheading the Technical Research Centre (TRC) Program of DST. The TRC program is translating scientific discoveries and technological inventions into products and services of societal and industrial relevance. Around a dozen of technologies have been transferred to the industries and many of them are at different stages of developments for transfer to the industries.

INDONESIA

Indonesian Academy of Sciences



Yunita Triwardani Winarto is Emerita Professor in anthropology, Faculty of Social and Political Sciences, Universitas Indonesia; the Academy Professor Indonesia in Social Sciences and Humanities under the Royal Netherlands Academy of Arts and Sciences (KNAW) and the Indonesian Academy of Sciences (AIPI), and a member of the Cultural Commission of the Indonesian Academy of Sciences (AIPI). She is also a member of the Advisory Board of the Indonesian Philanthropy Association and the coordinator of the Science Field Shops, Universitas Indonesia to facilitate farmers coping better with climate change. She received her first and second degree in anthropology from Universitas Indonesia; Master of Science in environmental technology from the Centre of Environmental Technology, Imperial College of Science, Technology, and Medicine (UK); and Ph.D. degree in anthropology from the Department of Anthropology, the Australian National University. Her field of studies in Human Ecology and Public Anthropology focus on farmers' empowerment, creativity, and the dialectics between scientific and local knowledge in resource management in Indonesia and some Southeast Asian countries. She publishes *Seeds of knowledge: The beginning of Integrated Pest Management in Java* (2004); *Agrometeorological Learning: Coping Better with Climate Change* (co-editor with C.J. Stigter, 2011), some edited books, numerous articles in the refereed journals, and edited manuscripts.



Finarya Legoh is a senior lecturer at Faculty of Engineering University of Indonesia, for building technology and sustainable architecture. Her expertise is Sustainable Architecture Science & Technology, gained PhD in Applied Acoustics from University of Salford, UK. Since 2020, she is Senior Program Officer at Indonesian Science Funds (DIPI); Senior Officer at Southeast Asia – Europe Join Funding Scheme (SEA-EU JFS) Secretariat; and member of working group of Southeast Asia Science Advice Network (SEA SAN). Since 2019, Finarya Legoh has been working at Indonesian Academy of Sciences (AIPI) as Head of International Relation & Funding. In 2022, she was Secretary of Science20 Indonesia Presidency. Since 2019, Finarya is member of SHARE Communication Committee (Science, Health, Agriculture, Risk and Environment) within AASSA (Association of Academies & Societies of Sciences in Asia); in 2021, she was selected as Chairperson of this committee. Focus: open access, science literacy, addressing inaccurate and mislead information. She worked at the Agency for Assessment & Application of Technology (BPPT) in various research & management (1982-1999), then 2012-2019 as Principal Engineer. From 1999 to 2012, Finarya Legoh worked at the Ministry of Research and Technology, Indonesia - leaders in policy of disseminating & communicating S&T to public, industry and stakeholders, and advisor & trainer for researchers.

ITALY

Accademia Nazionale dei Lincei



Maria Cristina Marcuzzo is Professor of Political Economy at the University of Rome, “La Sapienza”, Italy and Fellow and Foreign Secretary of the Italian Academy of Lincei. Former President of the European Society for the History of Economic and the Italian Society for the History of Political Economy and presently she is Distinguished Fellow and Vice-President of the History of Economics Society (USA). She has been Visiting Professor in several universities in Europe, Japan, Mexico and United States She has worked on classical monetary theory, the Cambridge School of Economics, and Keynesian economics. She has published more than 100 articles in journals and books, plus authoring or editing 25 books. Collections of her essays have been published by Routledge (Fighting market failure, 2012) and by Cambridge Scholars Publishing (Essays in Keynesian Persuasion, 2019) and Palgrave Macmillan (Economics Theories, Protagonists and Facts, 2024 forthcoming).

MEXICO

Mexican Academy of Sciences



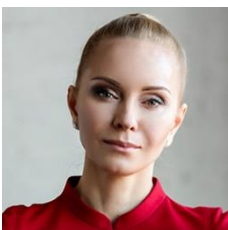
José A. Seade graduated from his master’s and Ph. D. degrees at the University of Oxford in 1977 and 1980, respectively. Since 1980, he is a researcher at the Mathematics Institute of Universidad Nacional Autónoma de México (UNAM). His main areas of research are dynamical systems and singularity theory. He has been an invited professor at several of the most distinguished research institutions in the world, as the universities of Oxford, Paris and Hong Kong, the École Normale Supérieure of Lyon, the Tata Institute of Fundamental Research in India. José Seade has published more than 70 research papers and three research monographs in distinguished editorial houses. Also, he is coordinating the publication of the Handbook of Geometry and Topology of Singularities. He has been awarded twice the Ferran Sunyer I Ballaguer Prize (Spain), in 2005 and 2012. He was awarded the Solomon Lefschetz Medal 2021, and the 2023 Latin American Mathematics Leadership Award. Professor Seade is a Member of the World Academy of Sciences (TWAS). He has been a member of the Board of the Banff International Research Station (BIRS), of the Pacific Institute for the Mathematical Sciences (PIMS) and of the Latin American and the Caribbean Union of Mathematicians (UMALCA). He was President of the Mexican Mathematical Society (1986-1988) and Director of UNAM’s Mathematics Institute for two periods (2014-2022). He was Vice-President of the Mexican Academy of Sciences (2020-2023) and currently he is President of that Academy (2023-2026).



José Luis Morán-López graduated from the Institute for Theoretical Physics, Free University of Berlin in 1977. He is a Full Researcher at the Department of Advanced Materials of the Potosí Institute of Scientific and Technological Research. He has published over 230 scientific articles in journals with international circulation. In 1984, he received the John Simon Guggenheim research grant, awarded in New York. In 1988, the Organization of American States, based in Washington, bestowed the Manuel Noriega Morales Award in Exact Sciences on him. In 1990, he received the C.V. Raman International Award from the International Centre for Theoretical Physics. In 1992, he won the Alexander von Humboldt Research Fellowship in Germany. In 1996, the Mexican government granted him the National Sciences and Arts Prize, the highest distinction for scientists in Mexico. He has promoted science at the regional and global level. He was the President of the Latin-American Federation of Physics Societies (1995-1998). Was part of the TWAS Council (2004-2006 and 2006-2008). Participated as the President of the Scientific Committee of ICSU-ROLAC (2012-2015). As President of the Mexican Academy of Sciences (2017-2020) promoted a collaboration agreement between the USA and Mexican National Academies to study problems of common interest.

RUSSIA

Russian Academy of Sciences



Olga Kobiakova graduated from the Siberian State Medical University (SibMed) with a degree in Medical Science, then completed postgraduate and doctoral studies. After graduating from SibMed, she worked as a doctor at the Tomsk Regional clinical hospital. From 2003 to 2014, she was on staff at the Tomsk Region Department of Health. In 2012-2014, she joined the EMBA program at Kingston University (London) on strategic management. From 2014 to 2020, Dr Olga Kobiakova, Full professor, Doctor of Medical Science, author of 199 research, methodological and educational publications, developer and manager of all-Russia research projects ran the Russian so-called “backbone” medical University– SibMed. Under her leadership the SibMed studentship increased by 58% from 5455 to 8625 people, while the University consolidated budget expanded by 57% from 1.9 billion to 3.1 billion rubles. Dr. Olga Kobiakova introduced a training program in general medicine in English, set up a department of distance learning at the University, opened new 485 beds at the University dormitories and launched the "Digital hospital" project. In 2019, Dr. Olga Kobiakova wrote "Health without zealotry". The book has sold

over 10 thousand copies. Olga runs her own Telegram channel and Instagram blog with over 50 thousand subscribers. On August 18, 2020 Dr. Olga Kobiakova became Director of the Federal Research Institute for Health Organization and Informatics of the Ministry of Health of the Russian Federation.

SAUDI ARABIA

King Abdulaziz City for Science and Technology



Nahla Alhazmi is an associate Research Professor, working at KACST as the General Manager of Hydrogen Technologies Institute, besides working as a Principal Investigator (PI) in the Center of Excellence for Aeronautics and Astronautics with Stanford University and a PI in the Center of Excellence for Nanomaterials for Clean Energy Applications with University of California-Berkeley. Nahla received her MSc in Computational Fluid Dynamics (CFD) in 2009 and her PhD from the school of Process, Environmental and Materials Engineering at the University of Leeds in 2014. She studied the heat transfer and fluid flow and electrochemical reactions to improve the performance of fuel cells and develop their materials where she has many publications in this field. Her research interests are computational mathematics, aerodynamics and its applications, coupled thermal mechanical analysis, thermal conductivity and heat transfer through materials and machine learning technique. Dr. Alhazmi received many Excellence Awards from the Saudi Cultural Bureau in 2012, 2013 and 2014 during her study in the United Kingdom and she was able to obtain the outstanding award as one of the best Saudi students in the UK and she has a research excellence certificate in the Energy area from the University of Leeds.



Sarah Binghadir, holding the position of Executive Officer at the G20 & International Relations Counselor's Office in KACST, has been instrumental in analyzing global policies and facilitating the logistics for diplomatic engagements. Her expertise in international relations and strategic communication reflects her deep insight into the intricacies of global diplomacy. In her entrepreneurial endeavor in London, Ms. Binghadir established an online pharmacy focused on women's health, blending healthcare services with digital marketing, e-commerce, and regulatory compliance. This venture highlights her innovative approach to healthcare, prioritizing patient-centered solutions and accessibility. Ms. Binghadir's professional expertise extends to data analysis, strategic planning, and market research. Her adaptability and communication skills have positioned her as a key player in both the pharmaceutical industry and the realm of international diplomacy, with a commitment to enhancing global health and fostering international cooperation. Her academic achievements, including a Master's degree in Drug Discovery and Pharma Management from University College London and a business degree from Harvard Business School, have endowed her with critical insights and management skills that further bolster her contributions across her multifaceted roles.

SOUTH AFRICA

Academy of Science of South Africa



Stephanie Burton is Professor in Biochemistry, in the Faculty of Natural and Agricultural Sciences and a Faculty Fellow at Future Africa, at the University of Pretoria (UP). She is the former Vice-Principal for Research and Postgraduate Education at UP (2011 to 2020). Professor Burton is Interim President of the Academy of Science of South Africa (ASSAf), the immediate past President and a Fellow of the Royal Society of South Africa (RSSA), a Research Fellow for Universities South Africa (USAf), a member of the Governing Council of Future Earth and Co-Chair on the Board of the International Academy Partnership (IAP). Professor Burton is currently coordinating national projects on mentoring and capacity development for early career academics, on behalf of Universities South Africa. She holds an MSc in Organic Chemistry (1990) and a PhD in Biochemistry (1994) from Rhodes University. She lectured in Chemical Engineering at the University of Cape Town, and subsequently served as Director of Postgraduate Studies, and Director of the Biocatalysis and Technical Biology Group, at Cape Peninsula University of Technology. Her research interests are in biocatalysis using phenol oxidases, laccases and peroxidases.



Himla Soodyall is the Executive Officer of the Academy of Science of South Africa (ASSAf). An ASSAf member since 2003, she was elected to the ASSAf Council in 2011 and appointed general secretary in 2014. Prior to joining ASSAf on 1st November 2018, she was employed as a Principal Medical Scientist in the Division of Human Genetics at the National Health Laboratory Service (NHLS) and University of the Witwatersrand (Wits). Her research focusses on using molecular genetic tools to reconstruct the evolutionary history and affinities of sub-Saharan African populations. Professor Soodyall has been the recipient of numerous awards and accolades, including the Order of Mapungubwe (Bronze Medal), by President Mbeki in 2005.



Muzaffer Şeker graduated from Uludağ University Veterinary Faculty in 1986. Subsequently, Prof. Şeker earned his Ph.D. degree in Human Anatomy at the University of Leicester, Faculty of Medicine in England, in 1995. He achieved the position of associate professor in 2000 and was promoted to full professorship in 2006. Prof. Şeker worked as an instructor in the United Arab Emirates for two years. He also held the position of the Head of the Department of Medical Education and Informatics at the Meram Faculty of Medicine at Selçuk University. He played a crucial role as a member of the Founding Board of Trustees of Istanbul Medipol University from 2008 to 2010. Prof. Şeker also holds a BA degree in Public Administration. In December 2014, he was appointed as the founding rector of Konya Necmettin Erbakan University and served a second term in the same role. Prof. Şeker has been actively involved in various academic and administrative positions, including serving as a TÜBİTAK Science Council Member, Interuniversity Council Medical Health Education Council Member, Ministry of Health Board Member of Health Tourism, Interuniversity Council Associate Professorship Council Member, former president of KOP Regional Universities Association, Executive Board of the University Hospitals Association. He has been serving as the President of Turkish Academy of Sciences (TÜBA) since 2019.



Ahmet Nuri Yurdusev, educated in Türkiye and England, is presently Professor of International Relations at the Middle East Technical University, Ankara, Türkiye. He has been a Visiting Fellow at University of Oxford (United Kingdom) and University of Kansai (Japan). His research interests include the theory and history of international relations, the making of European identity and Ottoman diplomacy. He is the author of *International Relations and the Philosophy of History: A Civilizational Approach* (Palgrave Macmillan, 2003) and the editor of *Ottoman Diplomacy: Conventional or Unconventional?* (Palgrave Macmillan, 2004). He has many conference presentations and publications as book contributions and journal articles. His articles have been published in international journals such as *Millennium: Journal of International Studies*, *Critical Middle Eastern Studies*, *Australian Journal of International Affairs*, *Korean Journal of Defense Analysis*, *Economia Exterior*, *Nomos* (Japan), *Journal of South Asian and Middle Eastern Studies*. Elected as a full member to the Turkish Academy of Sciences (TUBA) in June 2012, Professor Yurdusev served as member of the TUBA Academy Council from December 2012 to December 2018 and as Vice President from January 2015 to January 2019. Professor Yurdusev is a Fellow of the World Academy of Art and Science and presently Acting President of AASSA (Association of Academies and Societies of Sciences in Asia) and Vice President of EMAN (Mediterranean Academic Network).



Ian Wiggins is Director of International Affairs for the Royal Society where he leads on the Society's global engagement. Before joining the Royal Society, Ian worked at the University of York in a number of roles including leading the University's Brexit contingency planning and serving as the first Director for the York-Maastricht Partnership, the universities strategic relationship with Maastricht University. Ian is also a former British Diplomat including postings in Moscow and in Washington D.C. where he was Deputy Head of the Embassy's political section.



John P. Boright is the Executive Director of the Office of International Affairs of the US National Academies (comprising science, engineering, and medicine). International activities of the National Academies are very diverse, and include cooperation with national, regional, and global groups of counterparts from all regions of the world. A central goal of these cooperative activities is to build the capacity of the science, engineering, and medical communities to successfully engage in meeting local, national and global needs, and to inform policy making at all these levels. Dr. Boright has served in several governmental positions: in the Office of Science and Technology Policy in the Executive Office of the President; in the Department of State overseeing U.S. science and technology agreements with other countries, international space policy and program matters, and the science officer system at U.S. Embassies; as Director of International Programs, at the National Science Foundation; as Counselor for Scientific and Technological Affairs at the U.S. Embassy in Paris; and in the U.S. Arms Control and Disarmament Agency, the U.S. Mission to the IAEA in Vienna, Austria. He was Board member and Chair for the Science and Technology Center/Ukraine, and Chair of the OECD Global Science Forum. He received a B.A. (high honors) and Ph. D. in physics from Cornell University.



Marja Makarow is President of Academia Europaea, the European Academy covering all European countries and scientific and scholarly disciplines, and Board member of the science advice body that serves the European Commission (Science Advice for Policy by the European Academies). She is Professor Emerita of Molecular Biology and former Vice-President for Research of the University of Helsinki, and former Director of Biocenter Finland, Vice-President of the Finnish Research Council and Chief Executive of the European Science Foundation ESF. She advised the EC in the European Research Area Board and the Finnish Government in the Prime Minister's Research and Innovation Council, and chaired the Board of NordForsk, the agency for Nordic cross-border research programmes, governed by the Nordic Council of Ministers. Marja Makarow was Board member of the European Innovation Council EIC and the European Institute for Innovation and Technology EIT, and chaired the Board of Technology Academy Finland that awards the global Millennium Technology Prize for ground-breaking innovations. She has carried out evaluations of national R&I systems for the respective governments, and is Board and Advisory Council member of several European top universities. Marja Makarow is Chevalier de l'Ordre de Legion d'Honneur (France), and Commander of the Order of the White Lion (Finland).



Donald Dingwell received his B.Sc. (1980) in Geology/Geophysics from the Memorial University of Newfoundland and his Ph.D. in Geology at the University of Alberta (1984). In 2000, he was called to the Chair in Mineralogy and Petrology at the Ludwig Maximilians University of Munich, where, since 2002, he is Director of the Department of Earth and Environment. He has published ca. 560 papers on geomaterials, magmas and volcanism. His approach is fundamentally experimental and materials-based. His current research spans the structure and dynamics of silicate melts, the mechanistic interpretation of volcano monitoring and magma kinematics and the quantification of the role of volcanism and volcanic ash in the Earth System. He holds the Bunsen (EGU), Day (GSA), Hess (AGU), Holmes (EGU), Peacock (MAC), Werner (DMG), Steinmann (DGGV), VIP (GAC) and Miller (RSC) Medals; the Goldschmidt (DMG), Bowen (AGU), Schott, and MSA (MSA) awards, honorary degrees from UCL, Alberta, UNAM, Simon Fraser, and Beihang. He is fellow of the Royal Society of Canada, Academia Europaea, acatech, Leopoldina, Royal Society, Academia Mexicana de Ciencias, and Chinese Academy of Sciences. He holds the Order of Merit of Germany, and the Orders of Canada and Newfoundland/Labrador. He was President of the European Geoscience Union and the International Association of Volcanology and Chemistry of the Earth's Interior, and was Secretary-General of the European Research Council. He is Vice-President of the Academia Europaea.

OPENING SESSION

Brazilian Academy of Sciences

Helena B. Nader Please refer to the S20 Members/Delegates (Brazil).

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



Luciana Santos is the Minister of Science, Technology, and Innovation of Brazil. She graduated as an Electrical Engineer and served as the Vice Governor of Pernambuco until the end of 2022. Additionally, she has held positions as the president of the Institute of Weights and Measures of Pernambuco (IPEM), mayor of Olinda for two terms, federal and state congresswoman, and Secretary of Science, Technology, and Environment of the state of Pernambuco.

G20 Brasil 2024 Finance Track



Tatiana Berringer is responsible for civil society engagement within the Finance Track. She integrates the G20 team in the Ministry of Finance. She is Assistant Professor of International Relations at the Federal University of ABC. Ph.D. in Political Science from the University of Campinas (Unicamp). Bachelor's degree in International Relations. Authored many books, chapters and articles in academic journals.

G20 Brasil 2024 Engagement Groups (G20 Social)



Gustavo Westmann is a diplomat and academic. He currently holds the position of Special Advisor for International Affairs at the General Secretariat of the Presidency of Brazil. In addition to experiences in the private sector, at the Strategic Planning Secretariat of the Presidency and at the Brazilian Cooperation Agency, he was previously Head of the Economic and Commercial Sectors of the Brazilian Embassies in Italy, Indonesia and India. Gustavo Westmann is the author of the books *Novos Olhares sobre a Política Externa Brasileira* and *Pela Democratização da Política Externa Brasileira*, and director of the documentaries *Brasil, País do Presente* and *Via Sacra da Rocinha: Arte e Resistência na Favela*. Westmann has 3 master's degrees, the most recent from UC Berkeley, and a PhD in Foreign Policy from JGU, in India.

INTERNATIONAL ORGANIZATIONS

InterAcademy Partnership (IAP)



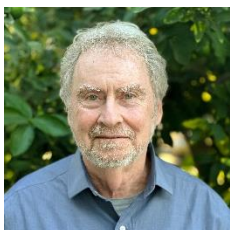
Margaret Hamburg is an internationally recognized leader in public health, medicine, and science. She is co-president of the InterAcademy Partnership, an international consortium of academies of science, engineering and medicine, and also serves as vice-chair of the President's Intelligence Advisory Board and is on the State Department's Foreign Policy Advisory Board. She has held numerous other significant leadership roles, including: Commissioner of the U.S. Food and Drug Administration; Foreign Secretary, U.S. National Academy of Medicine; President/Chair, American Association for the Advancement of Science, VP/Senior Scientist, Nuclear Threat Initiative; Assistant Secretary for Planning and Evaluation, U.S. Department of Health and Human Services; NYC Health Commissioner; and Assistant Director, National Institute of Allergy and Infectious Disease. Dr. Hamburg sits on a range of Boards, including the Commonwealth Fund, the Nature Conservancy, the American Academy of Arts and Sciences, The Lasker Foundation, The Broad Institute, The Nuclear Threat Initiative, The Council on Foreign Relations, the China Medical Board, Resolve to Save Lives, and Alnylam Pharmaceuticals. She also serves on the Harvard Global Advisory Council and the Global Health Scientific Advisory council, Gates Foundation. She has received numerous awards and honorary degrees. Dr Hamburg is a graduate of Harvard College and Harvard Medical School.

International Science Council (ISC)



Salvatore Aricò was appointed Chief Executive Officer of the International Science Council in January 2023. Previously he led the ocean science portfolio at the UN Intergovernmental Oceanographic Commission, was executive secretary of the UN Secretary-General's scientific advisory board, senior science officer at UNESCO, senior research fellow at the United Nations University, chief of programme at the Convention on Biological Diversity and researcher at the University of Delaware. A biologist and oceanographer by training, he has (co)authored close to 100 scientific and technical publications and has been involved in journals' editorial committees / acted as book editor. His current academic engagements include affiliate professor at the Parthenope University of Naples and the International Institute of Diplomacy and Sustainability at UCSI University in Malaysia, and the supervision of graduate students.

The World Academy of Sciences (TWAS)



Luiz Davidovich got his Ph. D. in Physics from the University of Rochester, USA. Since then, he has worked on quantum optics and quantum information. He is now Emeritus Professor at the Federal University of Rio de Janeiro and Distinguished Fellow of the Institute for Quantum Science and Engineering of the University of Texas A&M. He is member of the Brazilian Academy of Sciences, the World Academy of Sciences for the Advancement of Science in Developing Countries (TWAS) and is international member of the United States National Academy of Sciences, the Chinese Academy of Sciences, and the European Academy of Sciences. He was awarded the Brazilian Grand Cross of the National Order of Scientific Merit in 2000, the TWAS Physics Prize in 2001, and the Alvaro Alberto Prize, the most important prize for science of Brazil, in 2010. He is Fellow of the American Physical Society, of the Optical Society of America, and of the International Science Council. He was President of the Brazilian Academy of Sciences for two terms, from 2016 to 2022, and Secretary General of TWAS, from January 2019 to December 2022.

Ahmet Nuri
Yurdusev

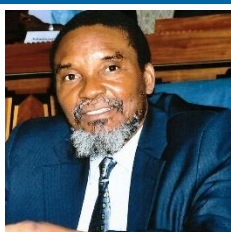
Please refer to the S20 Members/Delegates (Türkiye).

Inter-American Network of Academies of Sciences (IANAS)



Beatriz L. Caputto is Bachelor and PhD in Pharmaceutical Chemistry (National Univ. Córdoba 1972 and 1978), Full and Emeritus Professor of the National University of Córdoba, Argentina, and Senior Researcher of CONICET, Argentina's National Research Council. She was the advisor of 14 PhD's and published scientific papers on lipid metabolism and the regulation of membrane biogenesis, having described a new activity for the protein c-Fos, a well-known transcription factor; that is the capacity of this protein to regulate lipid biogenesis by a transcription factor-independent mechanism. She is a former President of the Biology Society of Córdoba (1989-91), of the Argentine Society of Neurosciences (1997-99) and of the Argentine Society of Research in Biochemistry and Molecular Biology (2007-09). She has also been a member of the board of ICBL (International Conference of the Biochemistry of Lipids) and Member of the Academy of Sciences of Latin America. Currently, she is the first women President of the National Academy of Sciences of Argentina (2020-2024), an academy founded in 1869 and since 2019, is the Executive Director of IANAS.

Network of African Science Academies (NASAC)



Mahouton Norbert Hounkonnou is Professor of Mathematics and Physics at the University of Abomey-Calavi, Benin. He is president of the Network of African Science Academies, former president of the Benin National Academy of Sciences, Arts and Letters, and co-chair of the Network of African, European and Mediterranean Academies for Science Education. He is member of several science academies and learned societies, including the Academy of Sciences of South Africa, the Hassan II Academy of Science and Technology in Morocco, the African Academy of Sciences, the World Academy of Sciences (TWAS), the American Mathematical Society, etc. He is the African representative on the International Mathematical Union's Commission for Developing Countries. He was a member of UNESCO's Scientific Council for the International Basic Sciences Programme and of the InterAcademy Partnership (IAP) working group on harnessing science, engineering and medicine to address Africa's challenges. He was awarded several international prestigious Prizes, most recently the American Institute of Physics in 2023 Tate Medal and the 2023 Yang Hui Prize for his seminal contributions to deformed quantum algebras.

KEYNOTE SPEAKERS

KEYNOTE LECTURE

Demography and Health Challenges in the G20



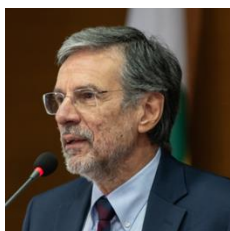
Marcia Caldas de Castro is Andelot Professor of Demography, chair of the Department of Global Health and Population at the Harvard TH Chan School of Public Health, and director of the Brazil Studies Program of the David Rockefeller Center for Latin American Studies (DRCLAS). Her research focuses on the development and use of multidisciplinary approaches to identify the determinants of infectious disease transmission in different ecological settings to inform control policies. Castro has more than 20 years of collaboration with Brazilian researchers, Health Secretariats, and the Ministry of Health particularly related to infectious diseases. She made important contributions during recent public health emergencies (the Zika virus epidemic and the COVID-19 pandemic). Castro has projects on malaria, COVID-19, arboviruses, infant/child mortality and development, and climate change in the Brazilian Amazon. She serves on several advisory boards in Brazil and the US, is an elected member of the Brazilian Academy of Sciences and of the American Association for the Advancement of Science, and is a columnist for Folha de São Paulo. She earned a Ph.D. in Demography from Princeton University.



Pedro Wongtschowski is Brazilian, chemical engineer, with a MSc and a PhD from University of São Paulo. He had an extensive career as an executive in major local companies. Today he is on the Board of Directors of various companies and of scientific bodies like FAPESP, IMPA, FNDCT and EMBRAPA. He is the Chairman of the Innovation Board of the São Paulo Industry Federation.



Fernanda De Negri is Director at the Institute for Applied Economic Research (Ipea), holds a PhD in Economics from the University of Campinas (UNICAMP). Was a visiting researcher at the Massachusetts Institute of Technology (MIT) and at Harvard University in 2015 and 2017. In the public sector, has held positions related to public policies for productivity and science and technology: as an economic adviser to the Minister of Development, Industry and Foreign Trade and as the head of the Monitoring and Evaluation Office of the Ministry of Science and Technology. Has authored several articles and books and received the BNDES economics award for a dissertation on the commercial performance of foreign companies in Brazil. In 2014, the book she edited on Productivity in Brazil was a finalist for one of the most prestigious literature prizes in the country: the Jabuti Prize.



Carlos Henrique Brito Cruz is a Senior Vice-President, Research Networks at Elsevier, UK, and a Professor Emeritus at the University of Campinas (Unicamp), Brazil. He has a MSc and a DSc in Physics (Unicamp). He was a researcher at the University of Rome and a Visiting Researcher at the Université Pierre et Marie Curie. He has been a professor at the Physics Institute at Unicamp until 2020, when he retired. Brito Cruz has been the President of the São Paulo Research Foundation (FAPESP) and President of Unicamp. From 2005 to 2020 he was the Scientific Director at FAPESP. Brito Cruz is a member of the International Advisory Board of the Alexander von Humboldt Foundation, the Shell Science Council, a co-chair of the Forum for International Physics at the American Physical Society, and a member of the Panel of Judges for the Queen Elizabeth Engineering Prize. Member of the U.N. 10-Member Group of High-level Representatives from 2022 to 2023, he was reappointed for 2024-2025. Brito Cruz is a member of the Brazilian Academy of Sciences (ABC), the Academy of Sciences of the State of São Paulo (ACIESP), the World Academy of Sciences (TWAS), and is a Fellow of the American Association for the Advancement of Science (AAAS), and of the American Physical Society (APS). He received the Ordre des Palmes Academiques de France, the Order of the Scientific Merit from the Federative Republic of Brazil, and the Order of the British Empire (OBE).

ABC BOARD OF DIRECTORS



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Glaucius Oliva is Full Professor of the University of São Paulo. He studied Physics and Electronics Engineering as an undergraduate of the University of São Paulo and subsequently obtained his PhD in Protein Crystallography and Structural Biology at the University of London in 1988. His main research interests are structural biology and medicinal chemistry and its application in drug design and discovery, with a particular focus on parasitic infectious tropical diseases that affect the population of Brazil and other developing countries. He was Vice-president of the Brazilian Society of Biochemistry and Molecular Biology-SBBq (2005-2007). Prof. Oliva has lead several projects in collaboration with Brazilian pharmaceutical industries, including programs of biodiversity screening for new natural products drug candidates. Amongst other prizes, he is Member of the Brazilian Academy of Sciences, Member of the National Order of Scientific Merit of Brazil, International Scholar of the Howard Hughes Medical Institute (1997-2001), Member of TWAS (The World Academy of Sciences for the advancement of science in developing countries) and Fellow do Birkbeck College - University of London. He was Director (2010) and President (2011-2015) of the Brazilian National Council for Scientific and Technological Development (CNPq); founder and member of the Governing Board of the Global Research Council (GRC).



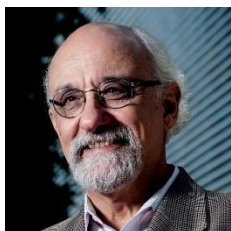
Maria Domingues Vargas graduated in Chemistry (Bachelor) at the Federal University of Minas Gerais (1979) and received her PhD in Chemistry from the University of Cambridge (1983), where she was a Research Fellow at Sidney Sussex College (1983-86) and a lecturer (1986-87). She was also a professor at the University of Campinas (1988-2003) and then Full Professor at the Fluminense Federal University (UFF) until 2019. Her main current interests include the bioinorganic chemistry of ruthenium organometallic compounds and platinum complexes, as well as the study of nanometric systems for drug delivery. She is also dedicated to promoting the theme of Ethics in Research and is active in the Permanent Commission for Gender Equity at UFF. She was honored with the Simão Mathias Medal from SBQ in 2009 and in 2019 with the Vanderlan da Silva Bolzani Award. She was elected a member of the Brazilian Academy of Sciences (ABC) in 2006 and participates, as its representative, in the Jury of the LOréal-UNESCO-ABC Women in Science Program and the Selection Committee of the LOréal-UNESCO International Rising Talent Program since 2014. She received the VI UFF Scientific Excellence Award in 2013. She was awarded the National Order of Scientific Merit, Commander, in 2010, and Grand Cross, in 2018. She is currently a member of the Board of ABC (2022-2025).



Mariangela Hungria graduated in Agronomy at the University of São Paulo (USP, 1979) and obtained her M.Sc. in Soils and Plant Nutrition from USP (1981), and her Ph.D. in Agronomy (Soil Science) from the Federal Rural University of Rio de Janeiro (UFRRJ, 1985). Post-doc at Cornell University (1989), University of California - Davis (1991), and University of Seville (1998). Researcher at Embrapa since 1982. Professor at the State University of Londrina (UEL) and at the Federal University of Technology (UTFPR). She has launched more than 20 technologies, including strains of rhizobia for the common bean crop, Azospirillum for the maize, wheat and brachiarias and for co-inoculation with rhizobia for the soybean and common bean. Works with various private partnerships in the development of new microbial inoculants, with several products already registered and commercialized. President of the Brazilian Society of Soil Science (2001-2003), member of editorial boards and reviewer of national and international refereed journals. Member of the Brazilian Academy of Sciences (ABC), Brazilian Academy of Agronomic Sciences (ABCA), and the World Academy of Sciences (TWAS). She has received many awards and prizes, such as Title of Commander of the National Order of Scientific Merit by the President of Brazil (2008) and Grand Cross Order (2018), Antonio Carlos Moniz Award of the Brazilian Society of Soil Science (2019), and the TWAS-Lenovo Award in agriculture (2020). Listed one of the most influential researchers in the world (2020-2021).



Patricia Torres Bozza is Coordinator of the S20 Brasil 2024 Task Force “Health Challenges: quality, equity, and access”. She graduated in Medicine in 1990 from the Faculty of Medical Sciences, State University of Rio de Janeiro; and earned a Doctor of Science degree (specializing in Pharmacology) in 1993 from the Cellular and Molecular Biology Program of the Oswaldo Cruz Institute. In 1994, Patricia was appointed as a Pew Latin American Fellow and conducted her postdoctoral research at Beth Israel Hospital, Harvard Medical School. Patricia Bozza is a senior researcher at the Oswaldo Cruz Institute, a 1A researcher at CNPq, and a member of the Brazilian Academy of Sciences. Patricia was an International Scholar of the Howard Hughes Medical Institute from 2002 to 2006 and coordinated the Brazilian committee of the Pew Program in biomedical sciences. The research group led by Patricia focuses on studying the cellular and molecular mechanisms involved in the inflammatory and metabolic response to infections; as well as the involvement of the inflammatory process and lipid metabolism alterations in obesity and cancer.



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Roberto Lent holds a degree in Medicine (1972) from the Federal University of Rio de Janeiro (UFRJ), a master's and doctoral degree in Biological Sciences, Biophysics (1973 and 1978) also from UFRJ, and a postdoctoral fellowship at the Massachusetts Institute of Technology (1979-82). He was a Professor at UFRJ from 1975 to 2018, serving as director for two terms of the Institute of Biomedical Sciences (2007-2014), and currently holds the position of Emeritus Professor. He is currently a researcher at the D'Or Institute for Research and Education (IDOR). He is member of the Brazilian Academy of Sciences and Researcher 1A of CNPq. He is currently the Coordinator of the National Science Network for Education, Director of the Brazilian Academy of Sciences, and a member of the Steering Committee of the Unesco Global Alliance of Science of Learning for Education. He heads the Neuroplasticity Laboratory at the Institute of Biomedical Sciences and a Research Group in Neurodevelopment and Neuroeducation at IDOR. He also works in Education and Scientific Dissemination for adults and children, with books published for both audiences, and weekly columns on neuroscience in the newspaper O Globo.



Ruben George Oliven is Coordinator of the S20 Brasil 2024 Task Force “Social Justice: promoting inclusion, ending poverty, and reducing inequalities”. He is a professor at the Federal University of Rio Grande do Sul and director of the Brazilian Academy of Sciences. He holds a Ph.D. from the University of London. Oliven has taught at several universities, including the University of London, the University of Paris, the École des Hautes Études en Sciences Sociales, Leiden University, and the University of California (Berkeley). He was president of the Brazilian Anthropological Association and the National Association for Graduate Studies and Research in Social Sciences. He was a member of the CNPq’s Deliberative Council. His book “The Part and the Whole: Cultural Diversity in Brazil Nation” was awarded the Best Scientific Work of the Year by ANPOCS and has been translated into Spanish and English. He received the Érico Vannucci Mendes Award and the ANPOCS Academic Excellence Award in Anthropology. He was honored with the Grand Cross of the National Order of Scientific Merit. He is the chief editor of Anthropological Horizons and serves on the editorial board of several national and international journals. His research interests include urban anthropology, tradition and modernity, national and regional identities, Brazilian and North American popular music, consumption, and the symbolic meaning of money.



Virgilio Almeida is Coordinator of the S20 Brasil 2024 Task Force “Artificial Intelligence: ethics, social impact, regulation, and knowledge sharing”. Emeritus Professor at the Federal University of Minas Gerais (UFMG), he holds a degree in Electrical Engineering from the Federal University of Minas Gerais (1973), a master’s degree in Computer Science from the Pontifical Catholic University of Rio de Janeiro (1980), and a Ph.D. in Computer Science from Vanderbilt University (1987). He is member of the Brazilian Academy of Sciences, the National Academy of Engineering, The World Academy of Sciences (TWAS), and Full Professor at UFMG. His research interests focus on various aspects of Computing Systems, particularly large-scale distributed systems and their properties, the internet, traffic and workload characterization, measurement, analytical performance modeling, and capacity planning of information processing infrastructures. In 2006, he received the National Order of Scientific Merit - Commander class, and in 2010 the National Order of Scientific Merit - Grand Master Class. He was awarded the Inconfidência Medal of Honor (2012) and the Grand Medal of the Inconfidência (2018) by the government of Minas Gerais. In 2014, he received the Scientific Merit Award from the Brazilian Computer Society (SBC). He was also a Faculty Associate with the Berkman Klein Center for Internet and Society at Harvard University (2016-2018).

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