

# INTERNATIONAL HUMAN RIGHTS NETWORK OF ACADEMIES AND SCHOLARLY SOCIETIES

## Symposium

Science and the Right to Development

October 25, 2018 | The-K Hotel, Seoul, Korea

Hosted by **KAST** 한국과학기술학술원  
*The Korean Academy of Science and Technology*

Supported by  과학기술정보통신부  
Ministry of Science and ICT

# Program

## 9h00-9h05 Opening Remarks

Mooha Lee (*Vice President, Korean Academy of Science and Technology/Chair, Local Symposium Organizing Committee*)

## 9h05-9h10 Welcoming Remarks

Myung-Chul Lee, M.D. (*President, Korean Academy of Science and Technology*)

## 9h10-9h20 Congratulatory Remarks

Kyung-Seo Park (*President, Korean Red Cross*)

Martin Chalfie (*Chair, Committee on Human Rights, U.S. National Academies of Sciences, Engineering, and Medicine/Columbia University (2008 Nobel Laureate in Chemistry)*)

## 9h20-9h40 H.R. Network: History and Mission

Ida Nicolaisen (*Member, H.R. Network Executive Committee/Senior Research Fellow, Nordic Institute of Asian Studies, Copenhagen University*)

## 9h40-10h20 Keynote Address: The Universality of Human Rights in a Changing World

Changrok Soh (*Graduate School of International Studies, Korea University/Member, UN Human Rights Council Advisory Committee*)

## 10h20-11h00 Is There a Human Right to Development?

Nico Schrijver (*Leiden University/Member, Royal Netherlands Academy of Arts and Sciences*)

## 11h00-11h15 Coffee/Tea Break

## 11h15-12h30 Panel Discussion I: Human Rights and the SDGs

### Chair

Heisoo Shin (*Ewha Womans University/Member, UN Committee on Economic, Social and Cultural Rights*)

Keith Hiatt (*UN International, Impartial and Independent Mechanism-Syria*)

Joo Young Lee (*Human Rights Centre, Seoul National University*)

## 12h30-13h45 Lunch

## ***Challenges to Rights-Based Development***

### **13h45-14h15 Confronting Poverty and Reducing Inequality (SDG 1)**

Xigen Wang (*Executive Director, Human Rights Institute, Wuhan University*)

### **14h15-15h45 Panel II: The Human Rights Impact of Climate Change (SDG 13)**

#### **Chair**

Nico Schrijver (*Leiden University/Member, Royal Netherlands Academy of Arts and Sciences*)

Sun-Jin Yun (*Graduate School of Environmental Studies, Seoul National University*)

James Phiri (*Executive Secretary, Zambia Academy of Sciences*)

Jolene Lin (*Director, Asia Pacific Centre for Environmental Law, National University of Singapore*)

### **15h45-16h15 Accountability for Climate Change-Related Rights Violations**

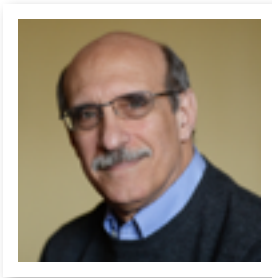
Gwendolyn Pimentel-Gana (*Commissioner, Commission on Human Rights of the Philippines*)

### **16h15-16h30 Closing Remarks**

Yooshin Kim (*Busan University/Chair, Science and Human Rights Committee, Korean Academy of Science and Technology*)

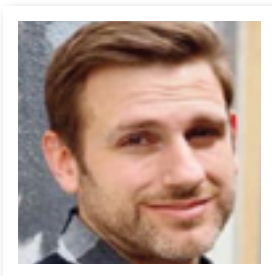
International Human Rights Network (H.R. Network) 2018 Symposium  
Science and the Right to Development  
October 25, 2018

*Speakers Bio*



**Martin Chalfie**

Dr. Martin Chalfie is University Professor and former Chair of the Department of Biological Sciences at Columbia University. He is a member of the U.S. National Academy of Sciences and the U.S. National Academy of Medicine, where he chairs the Committee on Human Rights. He obtained both his AB and PhD from Harvard University. Dr. Chalfie is a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, and the Royal Society of Chemistry (Hon.). He has received numerous awards for his work, such as the 2006 Lewis S. Rosenstiel Award for Distinguished Work in Basic Medical Science from Brandeis University and the 2008 E. B. Wilson Medal from the American Society for Cell Biology, both of which he shared with Roger Tsien. In 2008, he shared the Nobel Prize in Chemistry for his introduction of Green Fluorescent Protein (GFP) as a biological marker with Osamu Shimomura and Roger Tsien. He currently serves on the Executive Committee of the International Human Rights Network of Academies and Scholarly Societies.



**Keith Hiatt**

Mr. Keith Hiatt leads the Information Systems Management Section at the United Nations International, Impartial and Independent Mechanism for Syria. He is also a Research Fellow at Stanford University's Handa Center for Human Rights and International Justice. Prior to joining the United Nations, Mr. Hiatt was a Vice President at Benetech and a Program Director at the Human Rights Center at the University of California, Berkeley School of Law. Mr. Hiatt serves as an advisor on matters of technology, law, and human rights to the Office of the Prosecutor of the International Criminal Court and the Organization for Security and Cooperation in Europe. He holds a BA from the University of Washington, Seattle and a JD from the University of California, Berkeley. Prior to attending law school, Mr. Hiatt worked as a software engineer for Microsoft and an applied technology specialist at Boeing.



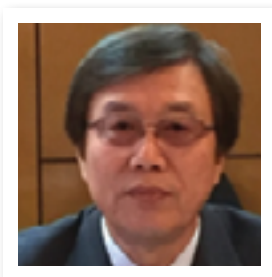
**Yooshin Kim**

Prof. Yooshin Kim is Emeritus Professor of the Department of Electronics at Pusan National University. His previous positions include serving as Editor-in-Chief of the Korean Society for Engineering Education, President of The Korean Society for the Philosophy of Science, Director of the International Telecommunication Union Center of Excellence Technology Node, and Dean of Liberal Education at Pusan National University. He has held visiting professorships at University of California, Berkeley and Stanford University. Prof. Kim earned his BS from Seoul National University in 1974; his MS from the University of California, Berkeley; and his PhD from Cornell University. In 2005, Prof. Kim was awarded the Excellent Research Award from the Institute of Electronics Engineers of Korea and was nominated as a Fellow of the Korean Academy of Science and Technology (KAST) in 2012.



**Joo-Young Lee**

Dr. Joo-Young Lee is an Expert Advisor at the Human Rights Centre, Seoul National University, where she is the Director of the Human Rights and Asia Course. Dr. Lee earned her PhD in International Human Rights Law from University of Essex in 2012, her MA in Human Rights from University of Sussex in 2006, and her BA in Social Welfare from Seoul National University in 1996. Her areas of research interest include economic, social, and cultural rights; human rights and development; and the implementation of international human rights. Her publications include *A Human Rights Framework for Intellectual Property, Innovation and Access to Medicines* (Ashgate/Routledge, 2015) and 'Neoliberal Developmentalism in South Korea and the Unfulfilled Promise of Economic and Social Rights' in *Economic and Social Rights in a Neoliberal World* (Cambridge University Press, 2018).



**Mooha Lee**

Prof. Mooha Lee is the Vice-President for Members' Affairs of the Korean Academy of Science and Technology (KAST), as well as the Director of the AASSA Secretariat and Professor Emeritus at Seoul National University. Prof. Lee has taught courses on the science of food for 25 years at Seoul National University, where he also served as Dean of the College of Agricultural and Life Sciences. He has also served as President of the Korea Food Research Institute, Chairman of the Korean Society of Animal Science and Technology, and President of the Korean Society of Food Science of Animal Resources. Prof. Lee earned his PhD from the University of Wisconsin-Madison. He received The Order of Merit for Science and Technology, Doyakjang from the Korean Government.



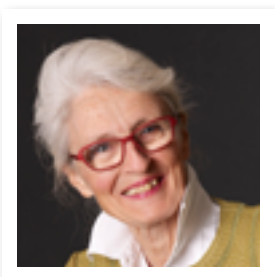
**Myung-Chul Lee**

Prof. Myung-Chul Lee is the President of the Korean Academy of Science and Technology (KAST). He is also the President of the Korea Association for Radiation Application (KARA) and Subcommittee Chairman of the Presidential Advisory Council on Science and Technology (PACST). He served as a Professor at the Department of Nuclear Medicine, Seoul National University College of Medicine from 1981 to 2012. Prof. Lee has previously served as President of Gachon University Gil Medical Center, the Korean Society of Nuclear Medicine, the Korean Association for Radiation Protection, the Korean Association for Nuclear Medicine Promotion, the Korean Society of Human Brain Mapping, the World Council for Isotopes (WCI) and the Korea Armed Forces Capital Hospital. Prof. Lee earned both his MD and his PhD from Seoul National University College of Medicine in 1973 and 1983, respectively, and he is a recipient of the Order of Science and Technology Merit (Changjo Medal), awarded by the President of the Republic of Korea for distinguished contributions to science and technology.



**Jolene Lin**

Dr. Jolene Lin is the Director of the Asia Pacific Centre for Environment Law and Associate Professor at the National University of Singapore. Her research and teaching focuses on climate change law and policy. She serves on the advisory board for the University of Strathclyde's LLM in Climate Change Law and Policy and on the editorial boards of *Journal of Environmental Law*, *Chinese Journal of Environmental Law*, and *Climate Law*. Her book, *Governing Climate Change: Global Cities and Transnational Lawmaking*, was published by Cambridge University Press in May 2018. Dr. Lin has previously served as an Associate Professor at the University of Hong Kong and as a consultant to the Hong Kong Department of Justice and the United Nations Environmental Programme. She is a founding member and non-executive director of Urban Spring Pte Ltd, a company that aims to reduce plastic waste by building a water refill network in Hong Kong. She earned her PhD from Erasmus University Rotterdam, her LLM from New York University, and LLB from the London School of Economics.



**Ida Nicolaisen**

Prof. Ida Nicolaisen is Professor Emeritus of Cultural Sociology at Copenhagen University's Nordic Institute of Asian Studies. She is Editor-in-Chief of the Carlsberg Nomad Research Project and former Vice-Chair of the Danish Development Agency. She has previously served as Vice-Chair of the United Nations Permanent Forum on Indigenous Issues and as Chair of the Soeren Kierkegaard Research Center. She serves on the boards of various organizations, including the International Chittagong Hill Tract Commission, World Wide Fund for Nature—Denmark, the All European Academies' Ethical Commission, the Royal Danish Geographical Society, and the Israeli-Palestinian Science Organization. She is a member of the American Academy of Arts and Sciences, the American Philosophical Society, the Royal Danish Academy of Sciences and Letters, and the Palestinian Academy of Science and Technology, and she is a Knight of the Order of Dannebrog. She currently serves on the Executive Committee of the International Human Rights Network of Academies and Scholarly Societies.





**James Phiri**

Mr. James Phiri is the Executive Secretary of the Zambia Academy of Sciences and a PhD Researcher at the University of Zambia. He earned his BSc from the University of Zambia in 1984 and his MSc from the University of Liverpool School of Tropical Medicine in 1989. He was Director General for the Zambia Environmental Agency for eight years. From 1996-2003, he was Zambia’s Chief Negotiator to the United Nations on matters of Chemicals Management and Climate Change. From 2005-2009, he was Country Director for World Wildlife Fund Zambia. Mr. Phiri has served on several United Nations Technical Committees and he is a member of the International Society for Environmental Epidemiologists, the Royal College of Veterinary Surgeons of the UK, the Zambia Academy of Sciences, the Chemical Society of Zambia, and the Entomological Society of Zambia.



**Gwendolyn Ll. Pimentel-Gana**

Commissioner Gwendolyn Ll. Pimentel-Gana has been active in helping formulate and lobby laws promoting the welfare of abandoned, neglected, and abused children by streamlining the adoption process and providing for alternative child care means. She wrote the book, *Adopting A Filipino Child, The Intercountry Way*, as a guide for adoptive parents and social workers. Her firm belief that human rights must be upheld at all times was forged during the Martial Law era when her father, a lawyer and a public servant, was jailed without trial four times for opposing then President Ferdinand Marcos. Similarly, her advocacy for women’s rights was shaped when her mother Lour, a teacher, had to support their six children while Commissioner Pimentel-Gana’s father was in jail. Commissioner Pimentel-Gana received her bachelor’s degree in International Studies at Maryknoll College. She earned her Bachelor of Laws and MA in Public Administration at the University of the Philippines.



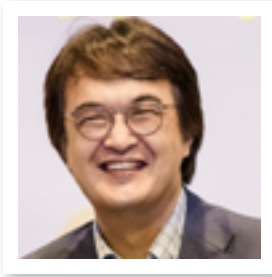
**Nico Schrijver**

Dr. Nico Schrijver is Professor of Public International Law at Leiden University. He has served on the Council of State of the Netherlands since September 2017. He was previously the Academic Director of the Grotius Centre for International Legal Studies, as well as a Senator and Chair of the Standing Committee on Foreign Affairs. He serves as the President of the Institut de Droit International. He is the former Chair of the Academic Council on the United Nations System and he served as President of the International Law Association and President of the Royal Netherlands Society of International Law. He is a member of the Permanent Court of Arbitration and of the Royal Netherlands Academy of Arts and Sciences (KNAW). He is the former Chair of KNAW's Committee on the Pursuit of Academic Freedom. From 2009-2016, he served as an independent expert member on the United Nations Committee on Economic, Social and Cultural Rights, and he served on the United Nations High-Level Panel on the Right to Development from 2005-2010. Dr. Schrijver is the author of publications in the fields of international law, peace and security, international co-operation, human rights, and sustainable development.



**Heisoo Shin**

Prof. Heisoo Shin is a Visiting Professor at the Graduate School of International Studies, Ewha Womans University and is President of the Korea Center for United Nations Human Rights Policy. She is a member of the UN Committee on Economic, Social, and Cultural Rights. Prof. Shin earned her BA in English Language and Literature from Ewha Womans University in 1972, her MA in Sociology from Ewha Womans University in 1976, and her PhD in Sociology from Rutgers – The State University of New Jersey in 1991. She is the former Commissioner of the National Human Rights Commission of Korea (2005-2008), member of the Board of Directors at Korea Human Rights Foundation (1999-2005), and member of the International Advisory Committee for the UN Secretary-General's In-Depth Study on All Forms of Violence against Women (2005-2006).



**Changrok Soh**

Prof. Changrok Soh is a Professor at the Graduate School of International Studies, Korea University, where he specializes in human rights, human security, and international relations. He is also the Director of the Korea University Human Rights Center. Prof. Soh currently serves as President of Human Asia, is a member of the United Nations Human Rights Council Advisory Committee, and is a Director of the Citizens' Alliance for North Korean Human Rights. Prof. Soh earned his BA in International Relations from Seoul National University in 1984 and his MA and PhD from Tufts University Fletcher School of Law and Diplomacy in 1987 and 1992, respectively. His prior experiences include serving as a Visiting Professor at the Georgia Institute of Technology (2009-2010) and New York University (2002-2003); as Dean of the Graduate School of International Studies at Korea University (2006-2008); and as Commissioner of the Korean Social Science Research Council International Affairs Committee (2012-2014).



**Victoria Tauli-Corpuz**

Ms. Victoria Tauli-Corpuz is the UN Special Rapporteur on the Rights of Indigenous Peoples, a position she has held since 2014. Ms. Tauli-Corpuz is an indigenous leader from the Kankanaey Igorot people in the Philippines and is the founder and Executive Director of the Tebtebba Foundation. She is also the indigenous and gender adviser of the Third World Network and a member of United Nations Development Programme Civil Society Organizations Advisory Committee. She has previously served as the Chairperson of the United Nations Permanent Forum on Indigenous Issues (2005-2010) and as the rapporteur for the Voluntary Fund for Indigenous Peoples. Ms. Tauli-Corpuz was actively engaged in the drafting of the UN Declaration on the Rights of Indigenous Peoples in 2007 and she has worked to organize the indigenous people's movement since the 1970's.



**Xigen Wang**

Prof. Xigen Wang is the Executive President of Wuhan University Human Rights Institute, which also serves as the National Human Rights Education and Training Base of China. He serves as Deputy President of the China Jurisprudence Society and of the China Law Academy of Lawyers. Prof. Wang served as a consultant expert to the United Nations on development rights from 2008-2017. Since 2010, he has been a Visiting Professor at the School of Law of Erasmus University, Netherlands. He has published nearly 20 books, and more than 100 articles in many journals, such as Chinese Journal of Law. Prof. Wang's research interests include human rights and development, judicial reform, and the rule of law theory. He earned his BA from Hubei Normal University in 1987 and his MA and PhD from Wuhan University Law School in 1998 and 2001, respectively.



**Sun-Jin Yun**

Dr. Sun-Jin Yun is Professor of Environmental and Energy Policy at the Graduate School of Environmental Studies, Seoul National University. She is a member of the Seoul Regional River Management Committee and of the Advisory Board for the Foundation for Renewable Energy and Environment. She also serves as Vice President of the Korea Environmental Society and as Director of the Korea Climate Change Association. Dr. Yun earned her BA in Sociology from Seoul National University. She earned both her MA in Urban Affairs and Public Policy and her PhD in Environment and Energy Policy from the University of Delaware.

On the occasion of its thirteenth biennial meeting, the members of the Executive Committee of the International Human Rights Network of Academies and Scholarly Societies (H.R Network) wish to thank Dr. Myung-Chul Lee and the Korean Academy of Science and Technology (KAST) for graciously agreeing to host this event and for all of their efforts to ensure that it is a success. We would also like to express our appreciation to KAST's Science and Human Rights Committee, the local organizing committee, and to KAST's exceptional staff. The assistance that they have provided to the H.R. Network's secretariat in preparation for this event has been invaluable. The Executive Committee also acknowledges with gratitude the generous financial contributions to the meeting made by several academies and individuals participating in the H.R. Network.



# INTERNATIONAL HUMAN RIGHTS NETWORK

Of Academies and Scholarly Societies

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*The International Human Rights Network of Academies and Scholarly Societies (H.R. Network) is an international consortium of honorary societies in the sciences, engineering, and medicine with a shared interest in human rights.*

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The H.R. Network was founded in 1993 by prominent Dutch human rights lawyer Pieter van Dijk and Nobel Laureates François Jacob (France), Torsten Wiesel (Sweden/United States), and Max Perutz (United Kingdom), to alert national academies to human rights abuses involving fellow scientists and scholars and to equip academies with the tools to provide support in such cases. Today the H.R. Network advocates in support of professional colleagues suffering human rights abuses; promotes the free exchange of ideas and opinions among scientists and scholars; and supports the independence and autonomy of national academies and scholarly societies worldwide. The H.R. Network also raises global awareness about the connections between human rights and science, engineering, and medicine.

Open to all interested academies, the H.R. Network provides a platform for sharing information on cases and issues of concern through its Washington, D.C.-based Secretariat. The Secretariat issues regular alerts to H.R. Network-participating academies concerning urgent cases involving scientists, engineers, and health professionals under threat as a result of their legitimate professional work or other peaceful activities. The H.R. Network's Executive Committee, composed of academy members from 12 countries, also periodically issues public statements on topical issues of global concern, such as gender discrimination in higher education and threats to scientific freedom. H.R. Network-participating academies assist in disseminating the Executive Committee's statements, and many academies use the alerts and statements as a starting point for their own advocacy (with each academy acting at its own discretion).

The H.R. Network holds biennial meetings on science and human rights themes. To date, 13 such meetings have been hosted by H.R. Network-affiliated academies around the world—including Sri Lanka, Morocco, Panama, and now South Korea. These events provide an opportunity for academy members to explore topical science and human rights themes, for instance on sustainable development, and to share information and strategies on cases/issues of human rights concern. Meetings frequently include special sessions for students in host countries.

More than 80 academies have participated in the H.R. Network, including by sending a representative to one or more of the H.R. Network's biennial meetings.

## BIENNIAL MEETINGS OF THE H.R. NETWORK

Hosts to date:

- 1993 - The U.S. National Academies
- 1995 - The Royal Netherlands Academy of Arts and Sciences
- 1997 - The Accademia Nazionale dei Lincei
- 1999 - The Royal Swedish Academy of Sciences and the  
Royal Swedish Academy of Letters, History, and Antiquities
- 2001 - The French Academy of Sciences
- 2003 - The Council of Swiss Scientific Academies
- 2005 - The Royal Society, London
- 2007 - The National Academy of Sciences of Sri Lanka
- 2009 - The Academy of the Kingdom of Morocco
- 2012 - Academia Sinica
- 2014 - The German National Academy of Sciences, Leopoldina
- 2016 - The National Secretariat for Science, Technology, and  
Innovation of Panama and the Panamanian Association  
for the Advancement of Science
- 2018 - The Korean Academy of Science and Technology

***H.R. NETWORK EXECUTIVE COMMITTEE MEMBERS***

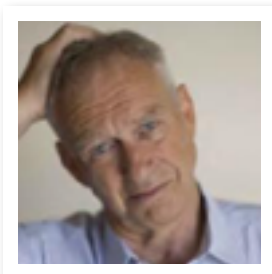




**ARJUNA ALUWIHARE, Sri Lanka**

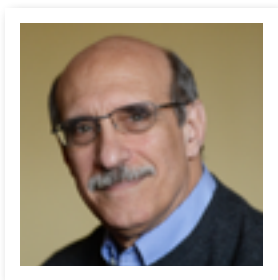
A.P.R. Aluwihare is Emeritus Professor of Surgery at the University of Peradeniya. After attending Trinity College, he obtained his basic medical degree at Kings College, Cambridge and the London Hospital.

He did his postgraduate work in Sri Lanka and England, FRCS(Eng) in 1966 and obtained his M.Chir (Cambridge) in 1970 at the Royal College of Surgeons London and St. Marks Hospital. He joined the University in 1971. He was vice chancellor, chairman of the University Grants Commission, a member of the Human Rights Commission, and chairman of the Board of Study in Surgery of Sri Lanka, amongst other posts. He has examined in the Final Fellowships in London, Pakistan, Nepal, Bangladesh, and Sri Lanka. He was on the Editorial Board of the British Journal of Surgery. He was founder and president of the SAARC Surgical Care Society and past president of the College of Surgeons of Sri Lanka (amongst others). He has traveled and worked widely, including a Hunterian Professorship at the RCS England. He has honorary fellowships at the Royal College of Surgeons of England and the Bangladesh College of Physicians and Surgeons, ad hominem fellowships at the College of Surgeons of Edinburgh and the Royal College of Physicians and Surgeons of Glasgow, a DSc from his university, and other honors. He has written widely, including a Chapter in Oxford Text Book of Surgery, and a Disc Book updating the London FRCS STEP course. The Sri Lankan government honored him in 1998 with the title “Vidya Jothi” for outstanding contributions to science.



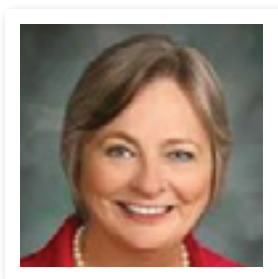
**ÉDOUARD BRÉZIN, France**

Dr. Édouard Brézin is a theoretical physicist and Professor Emeritus of Physics at the École Normale Supérieure. He pioneered the modern theory of critical behavior, developed methods for extracting testable predictions for critical exponents, and contributed to string theory. He was elected to the French Academy of Sciences in 1991, where he served as President from 2005 to 2006. Dr. Brézin is a foreign associate of the U.S. National Academy of Sciences, a foreign honorary member of the American Academy of Arts and Sciences, a foreign member of the Royal Society (U.K.), a foreign member of Bilim Akademisi (Science Academy, Turkey), and a member of the Academia Europaea. He is the former President of the Board of the National Center for Scientific Research (CNRS). In 2011, he was jointly awarded the prestigious Dirac Medal of the Abdus Salam International Centre for Theoretical Physics.



**MARTIN CHALFIE, United States of America**

Dr. Martin Chalfie is University Professor and former Chair of the Department of Biological Sciences at Columbia University. He is a member of the U.S. National Academy of Sciences and the U.S. National Academy of Medicine, where he chairs the Committee on Human Rights. He obtained both his AB and PhD from Harvard University. Dr. Chalfie is a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, and the Royal Society of Chemistry (Hon.). He has received numerous awards for his work, such as the 2006 Lewis S. Rosenstiel Award for Distinguished Work in Basic Medical Science from Brandeis University and the 2008 E. B. Wilson Medal from the American Society for Cell Biology, both of which he shared with Roger Tsien. In 2008, he shared the Nobel Prize in Chemistry for his introduction of Green Fluorescent Protein (GFP) as a biological marker with Osamu Shimomura and Roger Tsien.



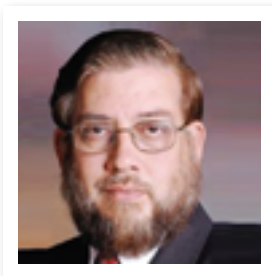
**CAROL CORILLON, United States of America**

Carol Corillon serves as an honorary member of the H.R. Network in recognition of her role as executive director of the International Human Rights Network of Academies and Scholarly Societies from 1993 to 2016. Formerly, she was the Director of the Committee on Human Rights of the U.S. National Academies of Sciences, Engineering, and Medicine and Executive Director of Friends of the Israeli-Palestinian Science Organization, USA. From 1980 to 1984 she worked for the National Research Council's Committee on the Sahel and, from 1970 to 1980, as a freelance print and broadcast journalist in the Democratic Republic of the Congo, working for BBC radio, The Economist, and other publications.



**ABDALLAH S. DAAR, Oman/Canada**

Abdallah S. Daar is professor of clinical public health, global health, and surgery at the University of Toronto. His work has encompassed surgery, organ transplantation, bioethics, and global health. His major research focus is on the use of life sciences to ameliorate global health inequities, with a particular focus on building scientific capacity and increasing innovation in developing countries, in addition to studying how life saving technologies and interventions can be rapidly taken from “lab to village.” He is a fellow of TWAS, the African Academy of Sciences, the Islamic World Academy of Sciences, the Royal Society (Canada), and the Stellenbosch Institute for Advanced Study. He is on the board of the World Diabetes Foundation and chairs the Scientific Advisory Boards of Grand Challenges Africa and the Alliance for Accelerating Excellence of Science in Africa, under which a new research funding organization, Grand Challenges Africa, has been created. He is the holder of UNESCO's Avicenna Prize for Ethics of Science.



**RAGHAVENDRA GADAGKAR, India**

Raghavendra Gadagkar is Year of Science Chair Professor at the Centre for Ecological Sciences and Founder Chair of the Centre for Contemporary Studies at Indian Institute of Science, Bangalore, India. He is an elected Fellow of all three science Academies in India, the Academy of Sciences for the developing world (TWAS), the National Academy of Sciences USA and the German National Science Academy, Leopoldina. He was Secretary, Indian Academy of Sciences, Bangalore during 1995-2000 and President, Indian National Science Academy, Delhi during 2014-2016. He is a Non-Resident Permanent Fellow, Wissenschaftskolleg (Institute for Advanced Study) zu Berlin since 2002. He has established an active school of research in the area of Animal Behaviour, Ecology and Evolution at the Indian Institute of Science. The evolution of cooperation in social insects, such as ants, bees and wasps, is a major goal of his research. He has published over 290 research papers & articles and two books - Survival Strategies (HUP, USA, 1997), which explains advances in behavioural ecology and sociobiology to non-specialists and The Social Biology of *Ropalidia marginata* (HUP, USA, 2001), which summarizes his own research. He has received numerous awards and fellowships including most recently, the Cross of the Order of Merit of the Federal Republic of Germany.



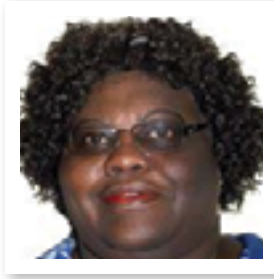
**BELITA KOILLER, Brazil**

Dr. Belita Koiller earned her undergraduate degree in Physics from the Pontifical Catholic University of Rio de Janeiro and her PhD in Physics from the University of California, Berkeley in 1975, under the supervision of Leo Falicov. In 1976, she became Assistant Professor at the Catholic University in Rio, where she was later appointed full Professor in 1992. In 1994, she moved to the Federal University of Rio de Janeiro, where she remains. She was named a Guggenheim Fellow in 1981, elected as a member of the Brazilian Academy of Sciences in 1995, and elected as a Fellow of The World Academy of Sciences (TWAS) in 2010. In 2010, she was commended by the Grã Cruz da Ordem Nacional do Mérito Científico, Governo do Brasil and, in 2005, she received the L'Oréal-UNESCO Award for Women in Science.



**PEDRO LEÓN AZOFEIFA, Costa Rica**

Dr. Pedro Leon Azofeifa is a biologist and retired Professor of Cell Physiology at the Medical School of the University of Costa Rica. He currently serves as President of the National Academy of Sciences of Costa Rica. He received his undergraduate degree from Baylor University and his doctorate from the University of Oregon. Dr. Leon's research focuses on deafness genetics and bipolar affective disorders. He has long been active in the Costa Rican environmental community and peace movement. Dr. Leon was elected as a founding member of the National Academy of Sciences of Costa Rica, and he is a foreign associate of the Latin American Academy of Sciences (ACAL) and of the U.S. National Academy of Sciences.



**HENRIETTA MENSA-BONSU, Ghana**

Henrietta Mensa-Bonsu is the director of the Legon Centre for International Affairs and Diplomacy (LECIAD) and a Full Professor of Law at the University of Ghana, Legon's Faculty of Law. With a distinguished career spanning over three decades and still counting, Professor Mensa-Bonsu has served in a number of high-level international capacities. A high point in these positions was her appointment as the deputy special representative of the U.N. Secretary-General for Rule of Law in Liberia from 2007 to 2011. In this position, she had the privilege of leading the United Nations' family on efforts to reconstruct the law-enforcement and judicial sectors of post-conflict Liberia. Prior to her appointment to the U.N. Mission in Liberia, she twice served as a member of the Committee of Eminent Jurists on the Lockerbie Case and Hissene Habre Case for the Organization of African Unity and the African Union respectively. She has recently served as a civilian mentor to the ECOWAS Senior Mission Leadership Course at the National Defence College, Abuja, Nigeria (3rd-14 September 2012).



**DONG-PIL MIN, Republic of Korea**

Dr. Dong-Pil Min is Professor Emeritus of Physics at Seoul National University and was a member of the Scientific Advisory Board to the U.N. Secretary General during 2012 and 2015. He was President of the Korean Association of the Advancement of Scientific Culture and Chair of the Asian Nuclear Physics Association (ANPhA) for 2014 till 2016. In 2011, he was appointed Ambassador-at-Large of the Republic of Korea for science and technology international cooperation. Dr. Min served as Chairman of the Korea Research Council of Fundamental Science and Technology from 2008 through 2011, where he launched the Seoul Science and Technology Forum, which aimed to build the platform and network for appropriate technology transfer to, and collaboration with, developing countries. He earned both his PhD (1976) and DSc (1980) in nuclear and theoretical physics from the University of Paris. Dr. Min has received numerous awards, including national medals for his contributions to science from France and South Korea and a medal from the President of Korea for his original contributions to the establishment of the International Science Business Belt program in 2016. He serves the International Human Rights Network of Academies and Scholarly Societies as an executive committee member since 2014.



**IDA NICOLAISEN, Denmark**

Prof. Ida Nicolaisen is Professor Emeritus of Cultural Sociology at Copenhagen University's Nordic Institute of Asian Studies. She is Editor-in-Chief of the Carlsberg Nomad Research Project and former Vice-Chair of the Danish Development Agency. She has previously served as Vice-Chair of the United Nations Permanent Forum on Indigenous Issues and as Chair of the Soeren Kierkegaard Research Center. She serves on the boards of various organizations, including the International Chittagong Hill Tract Commission, World Wide Fund for Nature— Denmark, the All European Academies' Ethical Commission, the Royal Danish Geographical Society, and the Israeli-Palestinian Science Organization. She is a member of the American Academy of Arts and Sciences, the American Philosophical Society, the Royal Danish Academy of Sciences and Letters, and the Palestinian Academy of Science and Technology, and she is a Knight of the Order of Dannebrog.



**JOHN POLANYI, Canada**

John Polanyi is professor of chemistry at the University of Toronto. He is a member of the Royal Society of Canada. In 1960 he was founding chair of the Canadian Pugwash Group, where he remained chair until 1978. He has published over 100 articles on peace and human rights and is currently president of the Canadian Committee of Scientists and Scholars. In 1986 John Polanyi, Dudley Herschbach, and Yuan T. Lee were awarded the Nobel Prize in Chemistry “for their contributions concerning the dynamics of chemical elementary processes.”



**OVID TZENG, Taiwan**

Dr. Ovid Tzeng is Chancellor of the University System of Taiwan. He is also an Academician of Academia Sinica, where he formerly served as Vice President. Dr. Tzeng established the University System of Taiwan to oversee the integration of research and teaching developments at Taiwan's four top research universities. He has previously served as the Minister of Education, the Minister Without Portfolio, and the Minister of Council for Cultural Affairs for Taiwan. His research focuses on cognitive neuroscience and neurolinguistics, and he is an experienced leader in academic institutions. He serves on the Board of Directors of Haskins Laboratories in the United States and as an Advisory Board Member of the ARC Centre of Excellence in Cognition and its Disorders in Australia. Dr. Tzeng was elected to The World Academy of Sciences (TWAS) in 2010 and to The European Academy of Sciences and Arts in 2017. He is a member of UNESCO's Inclusive Literacy Learning for All Project.

## EXECUTIVE DIRECTOR

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**REBECCA EVERLY**

Rebecca Everly is the Director of the Committee on Human Rights of the U.S. National Academies of Sciences, Engineering, and Medicine. Dr. Everly, an international human rights lawyer, received her Ph.D. from the Cambridge University Centre of International Studies (U.K.). She also received a Juris Doctor and Masters in International Law from Duke University (U.S.). Her prior experience includes work for the International Development Law Organization (India), the Centre for Promotion of Human Rights Teaching and Research at Jawaharlal Nehru University (India), International Women's Rights Action Watch Asia Pacific (Malaysia), the Office of the High Representative (Bosnia and Herzegovina), and the U.S. State Department.

