



WWS 16

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WASH-RAG WORLD WATER SUMMIT 16

Friday, May 24, 2024 Singapore



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Agenda

- 7:15 AM** **Registration / Coffee / Networking**
- 8:00** **Welcome, Michael Fernando, Summit Chair**
- 8:10** **Keynote Address**
Introducer: **Mark Balla**,
Plenary Speaker: **Jack Sim**, Founder and Director, World Toilet Association
Thank you: **Maggie Close**, UNICEF
- 8:40** **Keynote Address**
Introducer: **Maggie Close**, UNICEF
Plenary Speaker: **Ann Thomas**, Senior WASH Advisor, UNICEF
Thank you: **Steve Werner**
- 9:00** **Overview: Shit Flow Diagrams - what are they and how do we use them?**
Introducer: **Steve Werner**
Plenary Speaker: **Kettie Harawa**, Water for People, Malawi
Thank you: **Stew Martin**
- 9:15** **An Overview of Technology Options: Containment; Emptying/Transport; Treatment**
Stew Martin
Valentin Post
David Alexander
Dinesh Manandhar
Jill Duerig
- 10:30** **Break / Networking**
- 11:00** **Technologies cont'd: Reuse/Disposal/Sale**
- 11:40** **Sustaining Behaviour/Cultural Change**
Speaker: **Srikanth**
- 12:05** **Lunch / Networking**
- 1:00** **Keynote Address - Sanitation and Polio**
Introduction - **Michael Fernando**
Speaker: **Aziz Memon** The Rotary Foundation Trustee
- 1:15** **Discussion - Business Models and Opportunities for Rotarians**
Moderator: **Alhassan Rashid Abdul**, Rotarian
Participants: **Jack Sim and Valentin Post**

- 1:55** **Advocacy - A role for Rotarians?**
Introducer: **Erin McCusker**
Speaker: **John Oldfield**
Thanker: **Michael Fernando**
- 2:05** **Breakout Sessions - “How can Rotarians engage or help to develop multi-stakeholder partnerships to address sanitation issues - particularly partnerships that engage the private sector in meaningful ways?”**
Convenor: **Patrick Coleman**
Facilitators: **Chuck Fisher, Carl Treleaven, Peter Verbeek, Jill Duerig**
- 2:55** **Return to Plenary**
- 3:00** **AI and WASH**
Speaker: **Stew Martin**
- 3:10** **Innovation: Looking to the Future**
Introducer: **Luke Pineo**, Business Connect
Speaker: **Erin McCusker**, SATO
- 3:25** **Break / Networking**
- 3:55** **Update on Ukraine**
Introducer: **Michael Fernando**
Speaker: **Dr. Olha Paliychuk**, Rotarian
- 4:05** **Rotary’s WASH Strategy**
Introducer: **Rodney Herrington**, Aqua Research
Speaker: **Erica Gwynn**, WASH Area of Practice Manager, The Rotary Foundation
- 4:35** **Closing Keynote**
Introducer: **Michael Fernando**
Speaker: **Mário César Martins de Camargo**, Rotary International President-Nominee
- 4:45** **Closing Remarks, Michael Fernando**, Summit Chair

Moderators and Presenters

Michael Fernando was District Governor in D1200 (in South West England) when the war in Ukraine broke out, during 2022. As a Paediatrician (Pediatrician), he helped a club in his District obtain medical supplies to fill a lorry driving to Ukraine, through the International Rotary Fellowship of Healthcare Professionals.

Borys Bodnar from RC Ukraine Unity was helping with logistics for Rotary in Ukraine and asked Michael if knew of anyone who could help Rotary in Ukraine with water. Through the 'Magic of Rotary' Michael was able to put Borys in touch with key players in HANWASH (the Rotary project to provide clean water to Haiti), as well as WASH RAG. Through this process, Michael ended up

Jack Sim Founder and Director, World Toilet Association, is globally renowned as Mr Toilet. Jack Sim grew up in a slum in Singapore and although he did not have a university degree, this did not stop him from starting a series of profitable businesses. He retired from his businesses at the age of forty to dedicate himself to humanitarian causes. When he saw 2.6 billions people without proper sanitation, he founded the World Toilet Organization in 2001 and transformed the taboo of Toilets and Sanitation into

Ann Thomas is Senior Advisor, Sanitation and Hygiene at UNICEF. She is an environmental engineer with over two decades of development experience, within the UN system and aid organizations in Latin America, Africa and Asia. Her passion is driving strategic policy decisions in the WASH sector – an often-overlooked investment-multiplier in emerging economies – that translate directly to improved health and economic development outcomes. Ann has served as advisor to national governments across Africa and Asia, aligning national strategies for water and sanitation with global best practice, climate change considerations, and innovative financing opportunities.

Ann's work is motivated by front line experiences in disasters and cholera outbreaks, witnessing the disproportionate vulnerability of populations without access to basic WASH services. Having

chairing the Ukraine International Rotary Water group, which has worked on water projects in Ukraine, including mobile water filtration units, water filter provision and a multi country Disaster Response Grant to provide a Reverse Osmosis Unit in Mykolaiv. The group includes leaders of the Ukraine District WASH team, Mark Gitelman and Borys Bodnar, as well as Past RI Director Katerina Kotsali-Papadomitiou.

Michael was then asked to chair the World Water Summit for WASH RAG. On a different note, Michael has also worked with projects to train trainers in Neonatal Resuscitation (Helping Babies Breathe) in Pakistan and Afghanistan.

a media darling mobilizing politicians, governments, celebrities and funds to give Sanitation its own agenda on the global stage. Jack graduated at the age of fifty-six with a Master in Public Policy in Singapore and later from Singularity University in the United States of America. He is an Adjunct Associate Professor at Lee Kuan Yew School of Public Policy and Fellow at Singapore University of Social Science.

worked in several of the the world's most disaster-prone nations, recognizing the enormity of the gap between resources and needs, Ann considers partnerships and coalition building as foundational to accelerating progress. Ann has advocated new financing and community engagement models with Islamic financing agencies in Indonesia, resulting in scalable and culturally relevant programs for the poorest, and at the same time has worked with multinationals to innovate and test market solutions to identified gaps. As part of the Government of Indonesia's COVID response, Ann developed protocols which were deployed nation-wide in a variety of settings, to support infection prevention and control, monitoring of behaviors, reopening of schools and continuity of municipal services - while advocating for the centrality of WASH in mitigating further outbreaks.



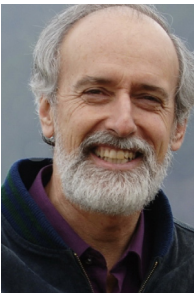
Moderators & Presenters, cont'd



Kettie Alinafe Harawa is Director of Influence and Scale for Water For People, Malawi. She is a Water Sanitation and Hygiene (WASH) Specialist, with twenty years' work experience. Kettie does not only care about water supply but also the resource, as she puts much attention to Integrated Water Resources Management. She builds programs, teams, embraces the power of data in decision making and programming. Passionate about improving the quality of life of all people especially girls, women and children, helping them realize

their potential and contributing to development. Kettie has a proven track record of taking to scale, city/district wide initiatives that transform the political and social economic systems to achieve life changing goals. Kettie is an environmentalist by Training.

Kettie holds a number of other positions including Co-Chairperson Sanitation and Water for All (SWA) Systems Finance Working Group (SFWG)- Since 2023 , and Co-Chairperson WASH Agenda For Change-since 2021.



Stew Martin is a 32 year Rotarian, former industrial engineer and recovering lawyer. Stewart has served on many nonprofit boards. Stew has made Rotary International Service his passion and WaSH a specialty as a volunteer since Wasrag was formed in 2007. He dedicates time and energy to learn WaSH methods. He has led projects for Rotary in Central America, several in Indonesia and focused in the last decade on East Africa.

Stew serves his Rotary district as WaSH Resource Chair, has been District International Service Chair, Global Grants chair and Lead Coach (assisting clubs with global grants, and earlier GSE Chair. He served on Wash-Rag's Operations Team and

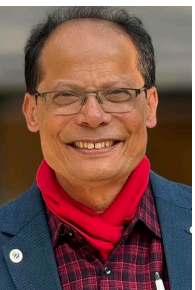
has long been a member of the Cadre of Technical Advisors for TRF, with assignments in multiple countries. Stew & Erica co-led the teams who developed TRF's WaSH AoFocus Guidelines. He received the TRF Citation for Meritorious Service in 2016. Stew is a board member of Transform International and an advisor for NGO regional centres in Kenya & Tanzania.

As a student of better WaSH methods, Stew frequently researches, contributes, and assists others on WaSH and related projects. Stew is also a retired singer and actor, semi-pro photographer, loves travel, and enjoys learning with A.I.



David Alexander is a member of the Rotary Club of Manningham City, via Melbourne Australia. He joined the Cadre of Technical Advisers (WASH) in 2011, and has completed assignments for The Rotary Foundation in Swaziland, Thailand (2), and Indonesia (3) and has also led a Global Grant WASH VTT Team to East Java, Indonesia. He has also participated in a WASH PPP team in Fiji, and has self funded travel to Grant projects including Philippines (3), Ethiopia and India (2); - and participated in a NID, in Kolkata India.His

water engineering experience includes town water supply and sanitation systems, major irrigation schemes and design of irrigation information and management reporting systems, large dam construction, watershed yield analysis and protection of surface and groundwater resources. He holds a Master of Science in Civil Engineering from Purdue University specialising in statistical hydrology and watershed rainfall-runoff modelling; and an Engineer of Water Supply, Victoria.



Dinesh Raj Manandhar, PhD has over 34 years of Research and Consulting experience in the field of Water, Sanitation and Hygiene in Nepal and many countries around the world. He has worked with Government, UN agencies, NGO and private sector as well in Nepal, Ghana, Sierra Leone, Thailand, Timor Leste, Sweden andTajikistan. He is associated with many professional associations. He has on his credit the awards from Government of Nepal, Colombo plan and DAAD scholarship, Swedish Institute awards for his academic career.

He joined Rotary Club of Patan South of district 3292 in the year 2012. He has served as President of the club in 2017-18, Assistant Governor for RY

2020-21 and various positions in district committees. He is currently District Secretary. He is Cadre of Technical Advisor, WASH and Environment and member of WASHRAG and ESRAG in Rotary International. He is coordinator of RI-USAID Partnership project of 2 M USD, which has been just approved for Nepal. He has participated in various national and international events including district conferences and international conventions. He is keen to work in team and to serve the best for humanitarian activities and society at large. Doing good in the world and knowledge sharing and leadership is his passion.

Valentin Post is the Co-founder and Director Growth and Innovation of FINISH Mondial, spearheads an international public-private partnership dedicated to the sanitation circular economy. His role encompasses overseeing the overall performance of the Financial Inclusion Improves Sanitation and Health (FINISH) partnership, expanding its reach across Asia and Africa, and fostering innovations within the organization. With a profound interest in business development, financial services, and bottom-up approaches. He envisions scaling through unconventional methods. He believes that remarkable outcomes can emerge when diverse

Jill Duerig has been active in numerous local and statewide water organizations, including Past President of the Board of the State and Federal Contractors Water Agency Board of Directors, Past Chair of the Association of California Water Agencies' (ACWA) Water Quality Committee, Past Board Member of ACWA and Past President of the California Urban Water Agencies (CUWA). She

S.N. Srikanth is a Rotarian of over 30 years, a WASH-RAG Ambassador, former Cadre member and, advisor to TRF's "Revised WASH Global Grant Guidelines Review Committee". He has extensive academic and field experience in behaviour change, which is at the heart of projects in every focus area of Rotary and especially in WASH.

Srikanth has a track record of inspiring clubs and districts to work together to achieve scale. The "Rotary End Polio Flame", one of the largest global projects ever undertaken by a club in Rotary was Srikanth's brainchild. The Flame, launched when Srikanth was President of the Rotary Club of Madras travelled to 35 countries, helping

Aziz Memon is a Trustee of The Rotary Foundation, and the lead in Rotary's polio eradication efforts in Pakistan for the past several years, has worked closely with partners and stakeholders, including WHO, UNICEF, the Expanded Program on Immunization (EPI), government officials, religious scholars, celebrities, and corporate executives from multinational companies and Rotarians from around the world. Chairman of the Kings Group, a conglomerate of five companies one of the leading Textile and Readymade Garment manufacturing and exporting groups in Pakistan. Honorary Consul General of "Republic of Suriname", in Karachi.

partners collaborate.

Hailing from the Netherlands, he has more than 25 years of experience in financial innovation in sanitation sector, waste management and fostering partnerships. Valentin co-founded the FINISH programme in India in 2009 and Kenya in 2013 and Mondial in 2018 (4 more countries namely Ethiopia, Tanzania, Uganda and Bangladesh in 2018). His relentless commitment to enhancing global sanitation and climate especially through innovative financial inclusion strategies, underscores his leadership in driving sustainable change on a monumental scale.

participates in HANWASH which has an objective of improving potable water access for everyone in Haiti (<https://www.hanwash.org/>) while improving sanitation and hygiene. She has also been a long-time member of the Livermore Valley Rotary Club and is currently serving as District Governor Elect for Rotary International District 5170.

dramatically reduce the number of WPV1 cases, emphasizing the link between polio and sanitation and collecting over \$10 million for The Rotary Foundation.

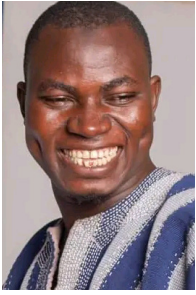
Srikanth's hugely successful projects in Southern India to end open defecation became a case study at the Indian Institute of Management, Ahmedabad, regarded as one of the best business schools in the world.

Other major behaviour change efforts by Srikanth include a widely admired district level Eye Donation Project enabling thousands to regain vision through corneal transplants.

President of "United Memon Jamat of Pakistan" and President of "English Speaking Union". Married to Professor Samina Aziz, she is Professor of Anesthesiology at Aga Khan University Hospital.

Some 30 years back Aziz found Rotary. When I asked why chosen this role, my reply was "because working for humanity is universal, it holds no boundaries, no cultures and no religion; it brings me closer to people who are also involved in the same field and gives me great pleasure to work with them."





Abdul Rashid W. Alhassan is a Dedicated Leader in Rotaract, Environmental Advocacy, and Community Development. As the Immediate Past National Coordinator for Rotaract and the Director for Rotary EndplasticSoup in West Africa, Abdul Rashid has spearheaded impactful projects aimed at addressing plastic pollution and promoting sustainable practices across the region. His role as the Lead of Rotaract Globally in the WASH RAG Operation Team underscores his dedication to improving water, sanitation, and hygiene standards worldwide.

As the Director of the Umyy Relief Foundation, an NGO based in the Northern Region of Ghana, he focuses on tackling pressing issues such as climate change, WASH (Water, Sanitation, and

Hygiene), community development, and agriculture. Through innovative programs and grassroots initiatives, Abdul Rashid has distinguished himself as a scholar and entrepreneur. His accolades include being the overall winner of the UDS Vice Chancellor Business Innovation Award in 2021, recognizing his ingenuity and entrepreneurial spirit. He has been honored with the D5850 WASH Leadership Award for his outstanding contributions to the field.

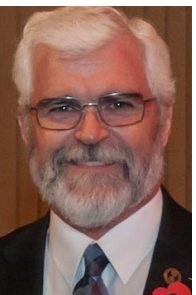
At COP28, Abdul Rashid was selected as one of only 12 Rotaract volunteers globally, where he had the opportunity to showcase his expertise on the concepts of Agroforestry, highlighting his commitment to sustainable agriculture and environmental conservation on a global scale.



John Oldfield is CEO at Accelerate Global, LLC, advising non-profit, corporate, and government clients in their efforts to rapidly and sustainably accelerate progress toward water, health, security, climate, gender, and environment goals. He was most recently the Managing Principal at Global Water 2020 and is an internationally recognized expert in global water security. He has testified before the U.S. Congress several times and has been published and interviewed in The Hill, Forbes, NPR, New Security Beat, Circle of Blue, The

Guardian, and Inside Philanthropy.

Previously, John was the CEO of Water 2017, encouraging the entire U.S. government to elevate and integrate global water security across the U.S. foreign policy and national security architecture. He also successfully influenced the Intelligence Authorization Act of 2020, requiring the U.S. intelligence community to “report on the implications of water insecurity on the national security interests of the United States.”



Patrick Coleman has been a Rotarian since 1993. He is married to Sherry Coleman - also a Rotarian since 1995. He is a member of the Rotary E-Club of Southern Africa D9400

He served as District Governor in the 2006-7 Rotary Year. Patrick’s professional training is in education. He is a trainer of trainers both in his professional life as well as in Rotary. His passion is to train and prepare people for life skills and empower them to

become leaders in their field of interest. He has been able to do this in Rotary in Club, District and Zone level.

Since then he has served in various areas of responsibility including: Zone 20A South Water and Sanitation Coordinator – 2008-11; Reach Out To Africa Water and Sanitation Coordinator – 2011-14; Assistant Rotary Coordinator – 2012-15; GETS Trainer – Spouses 2012; RRFC 2016-19; GETS Trainer – 2016



Chuck Fisher has over 30 years experience as an urban planner/project manager working for local and federal government and as executive director of an affordable housing non-governmental organization. He has a Master of Urban Planning from the University of Oregon; a Graduate Certificate in Real Estate Development from Portland State University and has completed coursework (ABD) for a PhD in Urban Studies, with field areas of community development and international development.

As a part of his PhD studies, Chuck has taught international development classes and co-led undergraduate seminars to Nicaragua. In both his professional and educational career, he has participated in and designed a breadth of research, assessment and evaluation techniques including: focus groups, interviews, survey design, asset and community mapping and design charrettes. Chuck’s experience also includes writing and managing grants received from a variety of government and foundation sources.

Carl Treleavan has been a Rotarian since 1991. He served as Governor of District 6950 in 2011-12, District Rotary Foundation Chairman for 2013-16, and as Zone 34 Endowment/Major Gifts Advisor during 2015-18. Carl is presently the Chairman of the Board of Directors of the Rotary Action Group for Community Economic Development and a Team Leader in the Rotary Foundation's Major Gifts Initiative.

Peter Verbeeck is a Key Biscayne Florida Rotary Club member, and Past District 6990 Governor, born in Brussels Belgium, lived in the DRC Africa for 9 years, attended University of Brussels Belgium and Florida Int'l University in Miami where he obtained an MBA and Post graduate Studies in Finance and Accounting.

Peter is President of Eastern Trailer Sales., a logistics Company that finances, sells and leases over the road Tractor/Trailers and cargo containers.

Erin McCusker is Senior Vice President and Leader, SATO and LIXIL Public Partners at LIXIL. She is responsible for the new LIXIL Public Partners and Hydrific ventures. These new initiatives in LIXIL recognize the need for innovation and new partnerships with consumers, and with the public sector, to solve the water, sanitation, and hygiene challenges to build resiliency and adapt

Faiz Kidwai is a Director of Rotary International and a member of the Rotary Club of Karachi Karsaz Sind, Pakistan.

Muhammad Faiz Kidwai is the chair of CG Global, a leading architecture, engineering, urban design, real estate development, and hospitality firm. A specialist in socially responsive architecture, Muhammad has developed master plans for urban housing projects as well as large urban development and city planning projects.

He is founder of Rotary Pakistan Smart Villages Program with a vision to develop sustainable indigenous lifestyle through innovation and technology. His mission is to transform the affected

Carl is the recipient of the Rotary Service Above Self Award, the Citation for Meritorious Service, the Distinguished Service Award, and was Rotarian of the Year for District 6950 in 2009-10.

He has a BA from Rice University and a MBA from Dartmouth College.

He's the Management Trustee in 2 non-profit Foundations. The Micro Finance Empowerment Foundation and the Peter Verbeeck Foundation. Also a Board member of the RAG Group for Economic Development. He chairs the District Mental Wellness Committee.

Peter was awarded this month Outstanding Humanitarian of the Year.

An RI Major Donor, member of the Bequest Society, he has a 26 year old son Michael.

to our changing world. Mrs. McCusker is also Vice-Chair of the Toilet Board Coalition (TBC), a unique business-led partnership with the ambition to accelerate the Sanitation Economy. She holds a BS, Bioengineering from FW Olin College of Engineering, an MBA from Duke University, and a certificate in Social Sector Leadership.

communities with Net Zero target and through smart interventions in shelter, water & sanitation, alternate energy, Health (also including Mother & Child and Mental health), education, environment & economic infrastructure etc.

He has co-chaired an initiative that has assisted more than 50,000 Afghan refugees and works on projects that fight poverty and hunger while promoting the education and empowerment of Afghan girls and women.

Awards include the RI Service Above Self Award, The Rotary Foundation Distinguished Service Award, and The Rotary Foundation Citation for Meritorious Service.





Dr. Olha Paliychuk MD, PhD, DMsc, Prof, MBA in Healthcare is a member of the Rotary Club of Cherkasy and has been elected to be the District Governor for Ukraine in 2025-26. She is a Major Donor, Paul Harris Fellow and has been awarded the 'Service above Self' award by Rotary International. She is an Obstetrician by profession and a Professor. Olha holds a number of district, national and international roles in Rotary and through her profession. She is a member and Secretary of

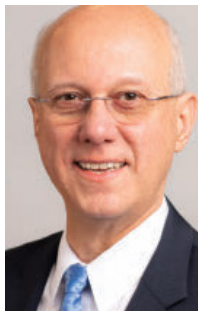
the Ukraine Ministry of Health Board of experts in Oncological diseases. Olha is in the Co-ordinating committee of the Ukraine Rotary Prevention of Humanitarian Disasters group.

Olha is the Commodore and Ukrainian Fleet Founder of the International Yachting Fellowship of Rotarians (IYFR). She is a member of the Water, Sanitation and Hygiene Rotary Action Group (WASH RAG), as well as being a member of the Peace-building Rotary Action Group.



Erica Gwynn is the Area of Focus Manager for Water and Sanitation at the Rotary Foundation and Manager for the Rotary International/USAID Alliance. She provides administrative and technical support to Rotary-led WASH initiatives of a variety of scales, leads strategic planning for future WASH programs, and builds partnerships to support capacity building initiatives. She has a B.S. in Biology and a Masters in Aquatic Toxicology and Environmental Health from the University of Michigan, Ann Arbor. With 10 years of professional and

research experience, she has focused her career on water and its connection to public health and the environment. As a Rotary International Ambassadorial Scholar, she investigated the ecological and socio-economic links between heavy metals in Lake Chapala, Mexico and the dietary habits of local populations. In addition, Erica has worked for the USDA, Michigan Department of Natural Resources, Paragon Laboratories, Inc., and has served as a consultant to a variety of environmental and public health projects in South America and East Africa.



Mário César Martins de Camargo a member of the Rotary Club of Santo André, Brazil, has been selected as president of Rotary International for 2025-26. De Camargo was president of the printing company Gráfica Bandeirantes and has been a consultant to the print industry in Brazil. He has also served as president and chair of several printing and graphics trade associations, including the Brazilian Association of Graphic Technology and the Brazilian Printing Industry Association. He has served on the board of Casa da Esperança (House of Hope), a medical center in Santo André sponsored by his Rotary club that serves more than 200,000 patients every year.

Law School and the Getulio Vargas Foundation's São Paulo School of Business Administration. He attended a high school in Minnesota in 1974-75 through Rotary Youth Exchange, which inspired a lifelong commitment to the program.

A Rotarian since 1980, de Camargo served as his club's Youth Exchange officer in 1981, at age 24, and its president in 1992-93. He was governor of District 4420 (part of Brazil's São Paulo state) in 1999-2000, Rotary Foundation trustee in 2015-19, and Rotary International director in 2019-21. He has also served Rotary as an RI learning facilitator, committee member and chair, and task force member. De Camargo and his wife, Denise, also a Rotarian, are Major Donors and Benefactors of The Rotary Foundation.

De Camargo studied in the U.S. and Germany and holds degrees from São Bernardo do Campo

WASH-RAG gratefully acknowledges the support of our sponsors:



SPECIAL THANK YOU TO THE WORLD WATER SUMMIT #16 PLANNING COMMITTEE:

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