

2019 Meeting of the G20 Transport Task Group: Participant Bios

October 28–30, 2019

Tokyo, Japan

The bios of government participants are ordered alphabetically by country/region and last name. Bios of intergovernmental and nongovernmental participants and of private sector participants are ordered alphabetically by organization and last name.

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Government participants

Argentina

[Alejandro Primbas](#)

National Energy Secretariat of Argentina

[Julio Eduardo Jose Vassallo](#)

Responsible for Homologation and Certifications, LCEGV-SAyDS

Julio Vassallo is a chemical engineer specialized in catalysis applied to the environment. He worked in research and development of catalytic converters for the elimination of contaminants in automotive exhaust gases in the Institute of Catalysis and Petrochemicals (INCAPE) of the City of Santa Fe in Argentina. He has international publications in specialized journals on basic and applied research in the field. He is responsible for approval and certifications of the vehicle emission control laboratory (LCEGV) of the Ministry of Environment of Argentina and participated from the definition and construction of this laboratory for LDVs in 1998. He has participated in many national and international seminars about vehicle emission control. He is currently also working on the development of HDVs emissions and energy efficiency highway tests together with other government ministries for the development of the Argentina regulatory structure.

Australia

[Miranda Lello](#)

Director, Transport, Waste and Energy Efficiency Section, Climate Change Division, Department of the Environment and Energy



Miranda commenced in January 2017 as the Director of the Transport, Waste and Energy Efficiency Section in the Australian Government Department of the Environment and Energy. In her position she leads a team responsible for developing and implementing policies to reduce Australia's domestic emissions from the transport, fuels and waste sectors, and from energy efficiency activities across the economy. Her section is responsible for developing Australian Government policies to reduce carbon emissions across the transport sector, including from heavy vehicles. This includes measures to improve efficiency of vehicles, and to encourage the development and uptake of alternative technologies, including low carbon fuels.

Prior to joining the Climate Change Division, Ms Lello performed a number of policy roles in the Department of the Environment and Energy in climate change policy and environmental protection and regulation. Ms Lello also worked for the Australian Government Attorney-General's Department for four years, specialising in government regulation and decision-making.

Brazil

Rodrigo Vieira

Mechanical Technologist, CETESB - Companhia Ambiental do Estado de São Paulo



Rodrigo Vieira is a Mechanical Technologist with 6 years of experience working at the CETESB's Vehicle Emission Laboratory, located in São Bernardo do Campo, Brazil.

Mr. Vieira coordinates the operation of a 500 kW engine test bench, capable to perform emissions tests according to Euro standards for on-road engines and ISO -8178 C1 standard for non-road engines applications. Furthermore, he also assists the operation of a chassis dynamometer to perform emissions tests in light duty diesel vehicles.

As part of his work, he gets involved in developing and implementing procedures and methods for operation and calibration of test equipments in that laboratory. He also attends working groups that give support to the Brazilian Association of Technical Standards (ABNT) and Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA), for implementing national emissions legislation and standards for passengers and transportation fuels and vehicles.

Canada

Jeffery Goodman

Unit Head, Vehicles and Engines Testing, Environment and Climate Change Canada



Jeffery Goodman is lead of the emissions compliance verification program for motorcycles, marine engines, and recreational vehicles at Environment and Climate Change Canada. Prior to this work, Jeffery held Canada's seat on a scientific panel under a UN chemicals treaty and worked in the private sector for a biotechnology company that was pioneering a cellulose to ethanol process for transportation fuel. Jeff is passionate about energy efficiency, and his personal vehicles, including his motorcycle, are electric.

Cambodia

Thiv SOPHEARITH

Deputy Director General, General Directorate of Environmental Protection, Ministry of Environment of Cambodia



Former Director of Air Quality and Noise Management Department, General Directorate of Environmental Protection, Ministry of Environment. Recently, working on revision of Air Pollution Control and Noise Disturbance which include emission standards and fuel standards, and a member of the preparation group of Environmental Code of Cambodia.

China

Gao Bo

Director of Vehicle Management Division, Transport Service Department, Ministry of Transport of the People's Republic of China



He has successively worked in different levels of public security traffic police department, highway management department, civil aviation management department and transportation service department in China. At present, he is mainly responsible for the organization and formulation of laws, regulations, policies and technical standards which are related to China's road transport vehicle safety, energy conservation, environmental protection and other technical performance requirements, as well as the policies formulation related to vehicle maintenance and inspection along with post market service. Besides, he has participated in the formulation of policies on the elimination, withdrawal and scrapping of road transport vehicles, and has guided the development of automatic technical driving of road transport vehicles, as well as the technical development of new energy vehicles and clean energy vehicles.

Weiwei Gong

Director / Senior Engineer, Division of Environment and Resources Research, Transport Planning and Research Institute, Ministry of Transport of the People's Republic of China



He is mainly engaged in research work on air pollution prevention and environmental protection planning for transportation, etc. and has participated in the formulation of a number of standard specifications with publishing more than 10 research papers. He has participated in the national "863" scientific research project, national science and technology major projects as well as more than 10 research projects on strategic policy of Ministry of Transport of the People's Republic of China.

European Union

[Ana Maria Danila](#)

Policy Officer, Road Transport, European Commission, Directorate-General for Climate Action (DG CLIMA)



Responsibilities: Road transport policy, demand-side aspects, and labelling. Implementation of EU's CO2 standards for cars and vans, in particular related to monitoring and reporting, real-world emissions, and lifecycle analysis.

[Heidi Hiltunen](#)

1st Counsellor, EU Delegation to Japan

Germany

[Iulia Dolganova](#)

Policy Officer, German Federal Ministry for Economic Affairs and Energy



Iulia Dolganova is a lawyer and engineer specialized in energy and mobility issues. Currently she is working at the German Federal Ministry for Economic Affairs and Energy in the division 'The energy transition in the mobility sector; fuel markets'. Before working for the Government, Ms. Dolganova was a researcher at the Technical University of Berlin.

India

Abdul Jabbar Akbar Badusha

Senior Deputy Director, The Automotive Research Association of India (ARAI)



Sh. A. A. Badusha has been associated with the Automotive Research Association of India (ARAI), Pune, since 1989, and is presently heading the Vehicle Evaluation Laboratory and the Homologation Management and Regulations Group, in the capacity of Senior Deputy Director.

He is basically a Mechanical Engineering graduate and a rank holder from the University of Madras specialized in Automobiles. He also holds a Master's degree in Business Management.

He has an experience of more than three decades (30 years) at ARAI, encompassing various technical areas and responsibilities. In particular, he has rich experience in the field of Vehicle Evaluation covering various vehicle performance aspects for its road worthiness and CMVR Type approval requirements, CMVR Certification co-ordination, Standard making, Safety component Evaluation etc., He has also experience in handling Infrastructure projects for vehicle evaluation under "National Automotive Testing and R&D Infrastructure Project (NATRIIP)".

He is an active member of various technical committees, viz. "CMVR – Technical Standing Committee(TSC)", "Automotive Industry Standards Committee (AISC)", TED committees of Bureau of Indian Standards (BIS), World Forum WP-29 (GRRF) and other Sub-committees of the CMVR-TSC like Bus Body Building, Truck Body Building, Trailer Construction, Road map of regulations for CEV's etc., He has played a key role in the formulation of the "Code of Practice for Bus Body Building, Truck Building, Trailer Building and Various Standards for Construction Equipment Vehicles as Convenor of these technical committees. He has been greatly involved in the recent finalisation of fuel efficiency norms and test procedures for commercial vehicles.

He is presently the Chairman of the TED-22 Committee and TED-04 Committee of BIS and Management Committee Member for all SAE INDIA and SAE INDIA Western Section activities. He is also the Secretary to India – GRVA group, which represents India at UN-ECE Geneva on Harmonisation of Regulations on Brakes, Running Gears, Autonomous and Connected Vehicles.

Japan

Nobutoshi Horie

Director, National Traffic Safety and Environment Laboratory (NTSEL)

Norihiro Kimura

Deputy Director, International Affairs Office, Ministry of Economy, Trade and Industry (METI)

Masaomi Koyama

Director, International Affairs Office, METI

Hisao Matsukawa

Special Assistant to the Director of the Division, Ministry of Land, Infrastructure, Transport and Tourism (MLIT)

Hiroshi Morimoto

Deputy Director, MLIT

Yoshinobu Sato

Deputy Director, METI

Naoto Takano

Transport, MLIT

Keisuke Tamogi

Official, MLIT

Asako Toyozumi

Director of Climate Change Office, Environmental Policy Division, Road Transport Bureau, MLIT

Kingdom of Saudi Arabia

Fareed ALASALY

Senior Advisor to the Minister of Energy, Ministry of Energy

Mohanad ALDAKHEEL

Energy Efficiency Specialist, Saudi Energy Efficiency Center

Mohanad Aldakheel is an Industrial Engineer working with the local government to improve the average fuel economy of the vehicle fleet in the Kingdom. Mr. Aldakheel is currently an energy efficiency standards specialist working at the Saudi Energy Efficiency Center (SEEC). Mr. Aldakheel has worked on several transportation initiatives that are currently implemented in the Kingdom such as the Saudi Cooperate Average Fuel Economy (CAFE). Mr. Aldakheel holds a

master's degree in Industrial Engineering from Oregon State University and a bachelor's degree in Industrial Engineering from King Saud University.

[Awwad ALHARTHI](#)

Economic and Policies Senior Advisor, Ministry of Energy

Lao People's Democratic Republic

[Khamathideth Manikham](#)

Deputy Director of Division, Department of Transport, Ministry of Public Works and Transport



Khamathideth Manikham joined the Transport Techniques and Environment Division of the Department of Transport in 2010 and the Vehicle and Machinery Management Division in 2013. He is a member of the ASEAN Automotive Product Working Group (APWG), the Eastern Asia Society for Transport Studies (EASTS), and the Steering committees of the Lao National GHG Inventory and Single Window Project. He holds a Master of Urban Transport Engineering degree from Dong-Eui University in Busan, Republic of Korea, and a Bachelor of Civil Engineering degree from the National University of Laos.

[Vilayphanh Sayavong](#)

Deputy Director General, Department of Transport, Ministry of Public Works and Transport

Mongolia

[Munkhzul Bayaraa](#)

Contract Specialist, Public Transport Department

Myanmar

[Tin Tin Thaw](#)

Deputy Director, Environmental Conservation Department

Singapore

[Nick Tan](#)

Senior Assistant Director at National Environment Agency



Nick Tan is in-charge of formulating policies, which control vehicular emissions. Some of these policies include setting of emission standards for vehicles, fuel quality standards and incentives for cleaner vehicles.

[Zaini Musa](#)

Senior Engineer at National Environment Agency.



Zaini Musa formulates policies and oversees the implementation of programmes and operations to control vehicular emissions.

United States of America

[Jim Blubaugh](#)

International Director of the Office of Transportation and Air Quality (OTAQ), U.S. Environmental Protection Agency (US EPA)



James Blubaugh is the International Director of OTAQ for the US EPA. Prior to being appointed Director, he served as the Deputy Division Director of the Transportation and Climate Division and the Transportation and Regional Programs Division at EPA. OTAQ establishes and implements national emissions standards for transportation fuels and vehicles, as well as a variety of off road equipment. These mobile sources include cars and light trucks, heavy trucks and buses, nonroad engines, marine vessels, and airplanes. In his current position, Mr. Blubaugh directs all international transportation programs for the Agency. He provides technical expertise and experience to developed and developing nations interested in improving the environmental footprint of their transportation sector. Since joining EPA in 1992, Mr. Blubaugh has held many leadership positions within the Agency including Director of the Agency's National Clean Diesel Campaign and Chief of the Innovative Strategies Branch. Mr. Blubaugh was a key leader of the teams that developed vehicle regulations and the nation's first emission standards for both construction equipment and locomotive/marine engines. Mr. Blubaugh has served as the Agency's Director for the establishment and implementation of the Diesel Emission Reduction Act, where he managed the award of over \$1 billion in technology funding to reduce emissions from the U.S. fleet of diesel vehicles.

[Diana Galperin](#)

Economist, OTAQ, U.S. Environmental Protection Agency



Diana Galperin is an Economist at the US EPA working for the Office of Transportation and Air Quality. Ms. Galperin joined the U.S. government as a Presidential Management Fellow. As part of this fellowship Ms. Galperin worked at the Department of Energy's international office where she helped organize the 7th Clean Energy Ministerial, launching the Corporate Sourcing of Renewables campaign and the 'Year of Action' for the Efficiency for Access Coalition. Ms. Galperin has previously worked at the World Bank and the Carnegie Endowment for International

Peace. She holds a Masters in Energy, Resources and Environment and Quantitative Methods and Economic Theory from Johns Hopkins School of Advanced International Studies. She also holds a Bachelor of Arts in International Affairs and French from Lafayette College.

Intergovernmental and Nongovernmental participants

Aristotle University

[Leonidas Ntziachristos](#)

Professor, Laboratory of Heat Transfer and Environmental Engineering



Leonidas Ntziachristos is a Professor of Mechanical Engineering at the Aristotle University Thessaloniki and Adjunct Professor at the Physics Department of the Tampere University of Technology. He is also one of the founding members of EMISIA SA, a spin-off company of Aristotle University. His research interests include pollutants formation and control, exhaust aerosol sampling and characterization, and emission models and projections development. Currently, he works on the development of aerosol instrumentation and sensors for diesel exhaust aerosol as well as models for the calculation of air pollutants and greenhouse gases from transport modes. He obtained his PhD in Aristotle University and conducted post-doctoral research at the University of Southern California. He is responsible for the development of COPERT software, on behalf of the European Environment Agency and the EU Joint Research Centre. He co-chairs the transport expert panel of the UNECE Task Force on Emission Inventories and Projections and he is member of the steering committee of the European Research Group on Mobile Emission Sources. He has more than 120 international peer review journal publications (h-index: 39, >4w00 citations) and a large number of contributions in conference proceedings and book chapters.

Graz University of Technology - Institute of Automotive Engineering

[Christoph Datlinger](#)

Scientific Researcher



Christoph Datlinger from Austria, Europe holds a master's and bachelor's degree in Mechatronic Systems and has performed his Ph.D. - project titled "Sensor Technologies for E-Drive Systems" during the past four years. He plans to finalize his Ph.D. by end of 2019. Mr. Datlinger is head of the laboratory for sensor systems at the Institute of Automotive Engineering located in Graz, Austria and an expert in electric sensing technologies, signal processing and control of electric drive trains. Besides deep theoretical background knowledge, he has a 4-year experience in computational and experimental investigations of complex sensor systems for automotive traction motors and supported several pre-series development projects for car manufacturers and suppliers. Mr. Datlinger has published his works at numerous international conferences and high-quality journals.

Helmut Brunner



Head of Research Group, Transport Innovations

Helmut Brunner is scientific senior researcher at the Institute of Automotive Engineering, Graz University of Technology. He is the head of the research Group Transport Innovations and Environment, focusing on innovative mobility solutions for the future. Looking beyond the border of conventional vehicle engineering, his tasks include the analysis of future demands for mobility, conceptual development and evaluation of vehicle and mobility technologies, environmental and technical analysis and life cycle assessments of various vehicle and infrastructure technologies, the development and integration of mobility concepts for urban areas, as well as the assistance of students and in teaching

ICLEI Europe

[Reggie Tricker](#)

Senior Sustainable Mobility Officer



Reggie Tricker is a Senior Urban Mobility Officer for ICLEI Europe, based in Freiburg, Germany. Reggie has over 15 years of experience as a specialist in sustainable transport, working in positions across academia, city government, public transport operators, consultancy and not-for-profit settings. Reggie has a range of international experience, from European Commission funded sustainable mobility projects (e.g. SMILE, CHAMP, GreenCharge, Handshake, SUMP-UP), to providing specialist advice on nationally significant transport hubs in the UK and major redevelopment and sports events in the Middle East.

Reggie has worked on low carbon mobility planning at Transport for Edinburgh, the city-owned mobility company running buses, trams and bikes in the city, and has conducted benchmarking reviews on freight and urban access restrictions in emerging economies. Reggie has an academic background in environmental science, but has been engaged in the formulation of guidance, standards, policies, strategies and action plans across multiple sectors of sustainable mobility.

His current work at ICLEI involves him advising networks of ICLEI members and further cities as part of the European Commission's Horizon 2020 programme, assisting them in the transition to ever-greater levels of sustainable mobility. This involves working with a number of leading cities (e.g. Copenhagen, Amsterdam, Oslo, Barcelona) and taking their best practice forward into a network of other cities at an earlier stage of the transition journey.

The International Council on Clean Transportation (ICCT)

[Hongyang Cui](#)

Researcher



Hongyang Cui is a researcher with the ICCT's China team. His research interests include emission and air quality modeling, electric vehicle policies, passenger vehicle fuel efficiency technologies and policies, and marine emission control. His research work contributes to various influential clean air policies in China, such as the China 6 vehicle emission standards, China New Energy Vehicle mandate policy, China's Domestic Emission Control Area (DECA) policy for vessels, Hainan Clean Energy Vehicle Development Plan, etc. Before joining the ICCT, Hongyang interned at the World Resources Institute (WRI) and the Brookings-Tsinghua Center for Public Policy, focusing on the low-carbon development of Chinese cities. He holds a B.Eng. in Vehicle Engineering from Tsinghua University and a M.S. in Atmospheric Science from Tsinghua University, with a focus on clean air policy.

Joshua Miller

Senior Researcher and Modeling Center Manager (Interim)



Joshua Miller joined The International Council on Clean Transportation (ICCT) in 2012. He now manages ICCT's transportation modeling center and leads ICCT's activities in the G20 Transport Task Group, which provides direct support to regulators in G20 economies to improve the energy efficiency and environmental performance of transport, with a focus on heavy-duty vehicles. He is a lead developer of transportation models and author of regulatory impact assessments, peer-reviewed journal articles, and emissions inventories covering a wide range of national and local level transport policies. He has worked with policymakers in Europe, North America, South America, Asia, the Middle East, and Africa. He holds a Master of Science degree in Transportation Technology and Policy from the University of California, Davis and a Bachelor of Arts degree in Economics from Vassar College.

Felipe Rodriguez

Senior Researcher



Felipe Rodríguez is a senior researcher on the ICCT Europe team. His areas of expertise are vehicle simulation, combustion engines, exhaust aftertreatment systems and vehicular emissions. His current research focuses mostly on the heavy-duty vehicle sector in Europe. Before joining the ICCT, he was part of the Sloan Automotive Laboratory at the Massachusetts Institute of Technology and worked in the automotive industry in Colombia, USA and Germany. Felipe holds a Ph.D. in Mechanical Engineering from MIT (USA), a M.Sc. in Automotive Engineering from the RWTH Aachen University (Germany) and a B.Sc. in Mathematics from Universidad de los Andes (Colombia). He speaks Spanish, English and German.

[Liuhanzi Yang](#)

Researcher



Liuhanzi Yang is a researcher with the ICCT's China team. Her expertise is in PEMS vehicle testing and emission modeling. Before joining the ICCT full time, Liuhanzi interned in the ICCT's Berlin office supporting our work on real-world NOx emissions of Euro 6 diesel passenger cars. Ms. Yang holds a B.S. in Environmental Engineering and an M.S. in Environmental Science and Engineering from Tsinghua University (China), and an Advanced Master's degree in International Environmental Management from MINES Paris Tech University (France).

International Energy Agency (IEA)

[Jacob Teter](#)

Energy Analyst



Jacob Teter joined the International Energy Agency (IEA) as a transport energy modeller and policy analyst in Spring 2015, and now leads IEA's team of transport analysts in the Energy Technology and Policy Division. He is one of the lead authors of the IEA's "Future of Trucks" and "Future of Rail" reports. He has contributed to the annual Global Electric Vehicle Outlook (GEVO) series, as well as to recent Energy Technology Perspectives (ETP) and World Energy Outlook (WEO) reports, including the WEO special report on Energy and Air Pollution, the IEA special report on Energy and Digitalization, and the Future of Hydrogen. Jacob completed his PhD in Transportation Technology and Policy from the University of California, Davis in 2015.

International Partnership for Energy Efficiency Cooperation (IPEEC)

[Rashmi Jawahar Ganesh](#)

Policy Analyst



Rashmi assists with the implementation of the G20 Energy Efficiency Leading Programme, in particular the work streams on transport, appliances and monitoring methods. Alongside engaging with member governments and establishing partnerships for IPEEC, she oversees IPEEC's strategic communications. Rashmi brings valuable experience working with countries to advance their clean energy transition. Most recently, Rashmi has worked with UN Environment to facilitate knowledge exchange, policy development, and joint action on issues related to promoting environmentally sound technologies. Earlier, Rashmi worked closely with the Renewable Energy Policy Network for the 21st century (REN21). Rashmi is committed to a fair and just energy transition.

International Transport Forum (ITF)

[Pierpaolo Cazzola](#)

Advisor on Energy, Technology and Environmental Sustainability



Pierpaolo Cazzola joined the International Transport Forum at the Organization for Economic Cooperation and Development (OECD) in June 2019 as Advisor on energy, technology and environmental sustainability. From 2014 to 2019, he coordinated the work the transport unit of the IEA Energy Technology Policy Division in the Directorate of Sustainability, Technology and Outlooks, including the development of the IEA Mobility Model. Previously, Pierpaolo worked at the United Nations (as Secretary of the Working Group on Pollution and Energy of the World Forum for the Harmonization of Vehicle Regulations), the Joint Research Centre of the European Commission, the Environment Directorate of the Organisation for Economic Co-operation and Development (OECD) and the Energy Statistics Division of the IEA.

Pierpaolo received university degrees from the French Institute of Petroleum and New Energies (IFPEN, Master in energy economics), the Polytechnic of Turin (Master in aerospace engineering) and the University of Glasgow (Bachelor of engineering in aeronautics).

[Jari Kauppila](#)

Head of Quantitative Policy Analysis and Foresight Division



Dr. Jari Kauppila is Head of Quantitative Policy Analysis and Foresight Division at the International Transport Forum at the OECD. His team works on wide range of transport policy issues and is responsible for the ITF's flagship publication, Transport Outlook, quantitative model development, Decarbonising Transport initiative and statistical data collection, among others. Since joining the ITF in 2007, Jari has also coordinated several international research projects on topics such as

logistics, transport reliability, decarbonisation, road safety and infrastructure investment. Prior joining the ITF in 2007, Jari spent nearly ten years as a lead economist with the Ministry of Transport and Communications Finland. Besides his duties at the ITF, Jari is an Adjunct Professor in Transport Economics at the Department of Operations and Supply Chain Management at Turku School of Economics in Finland.

Keio University, Japan

[Norimasa Iida](#)

Professor Emeritus

The University of British Columbia / Institute for Health Metrics and Evaluation

[Michael Brauer](#)

Professor



Michael Brauer joined the UBC faculty in 1991 in the Department of Medicine. He was an inaugural member of the Occupational Hygiene Program, Director of the School of Environmental Health (2003-2008) and the Occupational and Environmental Health co-lead in SPPH (2011-2014). He holds associate appointments in the Division of Respiratory Medicine and the Institute for Resources, Environment and Sustainability at UBC and is an Affiliate Professor in the Department of Global Health at the University of Washington.

His research focuses on linkages between the built environment and human health, with specific interest in transportation-related and biomass air pollution, the global health impacts of air pollution and relationships between multiple exposures mediated by urban form and population health. He has conducted monitoring and epidemiological studies throughout the world and served on numerous advisory committees (e.g. World Health Organization, Climate and Clean Air Coalition, the US National Academies, Royal Society of Canada).

Waseda University, Japan

[Yasuhiro Daisho](#)

Professor Emeritus

Private sector

Yoshio Maeda

Senior Expert, Honda R&D Co., Ltd



Mr. Maeda is a Senior Expert at the Digital Solution Center of Honda R & D Co., Ltd. He is a chairman of the Special Committee for Reviewing 2050 Automobile world of the Society of Automotive Engineering Japan (JSAE). That committee assesses the future of transportation with participation from experts in Automobile engineering (LDV, HDV, autonomous driving, EV), ITS, logistics, energy, railway, city, and global environment, etc., and discusses the future technologies of transportation. Maeda's technical area is internal combustion engines. He studied the combustion of internal combustion engines at the Hokkaido University Faculty of Engineering. After joining Honda in 1985, he was in charge of research and advanced development of internal combustion engines for about 30 years. He was responsible for powertrain strategy planning in 2010 and vehicle-related energy surveys and long-term energy strategies from 2015. Currently, he is the project member of considering new business for digital transformation related to automobiles and energy.

Abdullaziz ALJODAI

Research Fellow, Technology & Innovation, SABIC



Dr. Abdulaziz AL-JODAI has over 26 years of experience in developmental projects. Currently, he is the Corporate Program Director at the Technology and Innovation Department, SABIC Company. Dr. Aljodai's current involvements include formulation of mid- and long-term corporate strategies, development of technology roadmaps as well as the portfolio management of various developmental programs. He has been granted several patents in process development and

environmental fields. He is the key developer of the world's largest carbon dioxide purification and utilization plant that has been commercialized at United Company, SABIC's affiliate. Dr Aljodai has represented Saudi Arabia in COP21 Paris, G20 Japan and other high-level events where he presented and chaired several technical sessions. Dr. Aljodai is a UOP engineering fellow, with a PhD in chemical Engineering and MS degree in industrial Management USA.

Ali ALDAWOOD

Senior Consultant, Saudi Aramco

Michael Traver

Consultant, Aramco Services