

ICAO Seminar on Carbon Markets

ICAO HEADQUARTERS, 7 - 9 FEBRUARY 2018



SPEAKER BIOGRAPHIES



**INTRODUCTORY PRESENTATION:
UNDERSTANDING THE CARBON MARKETS**

**PANEL DISCUSSION:
SETTING THE SCENE - EXPECTATIONS FOR CARBON MARKETS**

Sophy Greenhalgh

Director, International Emissions Trading Association (IETA)

IETA is a non for profit international business association dedicated to supporting effective design of carbon pricing mechanisms.

Sophy Greenhalgh current manages IETA's work agenda on international climate markets for voluntary action, REDD+ and aviation. She has over 12 years' experience in climate change policy, environmental management and sustainability. Sophy Greenhalgh has worked as a consultant, researcher and project manager for the private sector, UK government and DG CLIMA at the EU Commission, covering a variety of large scale climate, economic and sustainability projects. Topics have included climate mitigation, adaptation and resource scarcity themes. Previously, Sophy Greenhalgh managed the International Carbon Reduction and Offset Alliance, a global not for profit promoting best practices for environmental integrity in voluntary carbon markets. She has also been lead developer and author for a number of local and regional government climate change strategies.



**PANEL DISCUSSION:
SETTING THE SCENE - EXPECTATIONS FOR CARBON MARKETS**

Michael Gill

Executive Director, Air Transport Action Group (ATAG), Director, Aviation Environment, International Air Transport Association (IATA)

Michael Gill was appointed as Director, Aviation Environment of the International Air Transport Association (IATA) in November 2013, with responsibility for developing and implementing IATA's work in the environment field, particularly in the areas of climate change, noise, alternative fuels commercialisation and the IATA environmental assessment programme. IATA is the global trade association for the world's airlines, representing some 275 airlines present in 120 countries, representing 83% of the world's air traffic. Michael Gill also serves as the Executive Director of the Air Transport Action Group (ATAG), the only global association that represents all sectors of the air transport industry. Its mission is to promote aviation's sustainable growth for the benefit of global society.

PANEL DISCUSSION:**SETTING THE SCENE - EXPECTATIONS FOR CARBON MARKETS**

Constanze Haug

Head of the Secretariat, International Carbon Action Partnership (ICAP)

The International Carbon Action Partnership, or ICAP in short, is an international network of 35 national and subnational governments from 4 continents. ICAP's mission is to facilitate sharing of best practices in emissions trading as a key tool in the fight against climate change, and to contribute to paving the way to larger, more connected carbon markets.

Dr Constanze Haug is the head of Secretariat of ICAP and coordinates ICAP's work on technical dialogue, capacity-building and knowledge-sharing on emissions trading. She has more than a decade of working experience on climate policy and carbon markets from different angles, including the World Bank, the UNFCCC Secretariat and academia.

PANEL DISCUSSION:**SETTING THE SCENE - EXPECTATIONS FOR CARBON MARKETS**

Annie Petsonk

International Counsel, Environmental Defense Fund (EDF) for the International Coalition for Sustainable Aviation (ICSA)

PANEL DISCUSSION:**SETTING THE SCENE - EXPECTATIONS FOR CARBON MARKETS**

Sarah Moyer

Carbon Finance Specialist, World Bank Group

The World Bank Group (WBG) strives to end extreme poverty and build shared prosperity around the world. Climate change threatens this mission. As a leader in the implementation of the Kyoto Protocol, the Bank Group created the first carbon fund. Today, its carbon funds have reached a total fund allocation in excess of \$3 billion and have delivered almost 200 million tons of CO₂eq emission reductions. The Bank Group is a leader in shaping the next generation of climate finance and markets and is extending its climate-related portfolio to 28% by 2020, to reach potentially \$29 billion annually by 2020 to help its client countries achieve their national climate commitments.

Sarah Moyer supports the Partnership for Market Readiness (PMR), a World Bank initiative that provides funding and technical assistance to countries – mostly emerging markets – to design and implement carbon pricing policies. Specifically, these policies support the use of emissions trading systems, carbon taxes or offset mechanisms. Sarah Moyer is the country focal point for the PMR engagement in China, Chile and Indonesia.

In addition, she also leads the organization of *Innovate4Climate*, the World Bank Group's flagship annual event on climate finance, climate investment and climate markets.



Rene Velasquez

Head of Global Carbon, CBL Markets

CBL Markets develops and operates exchanges with the mission of providing access to environmental commodity markets, all on a single screen. Our platform provides access for spot trading products across; Compliance Carbon, Global Carbon, Renewable Energy and Water markets.

Rene has worked in environmental markets since 2008 and is currently the Head of Global Carbon at CBL Markets. CBL's global carbon markets business, covers the global voluntary carbon markets as well as emerging global systems such as CORSIA. Rene and his team work with a wide range of clients which include; project developers, brokers, intermediaries, corporate clients and other non-state actors. The global carbon markets team is also active in advising clients on the development and implementation of carbon offset strategies, portfolio management and preparing for future compliance obligations.

PANEL DISCUSSION:

SETTING THE SCENE - EXPECTATIONS FOR CARBON MARKETS



Perumal Arumugam

Team Lead, Sustainable Development Mechanisms Programme, United Nations Framework Convention on Climate Change (UNFCCC)

Perumal Arumugam is a chemical engineer by graduation and a post graduate in energy management and certified Energy Auditor, with more than sixteen years of experience in conceptualizing, developing and implementing climate mitigation projects across globe covering varied sectors and technical areas using international financing schemes & mechanisms.

At United Nations Framework Convention on Climate Change (UNFCCC), providing senior technical advice on substantive technical issues relating to quantification of mitigation benefits across various sectors, including that of the aviation related mitigation methodologies. At UNFCCC, also leads and support intergovernmental negotiations process on all international co-operative and market related mechanisms and issues under the Kyoto protocol (CDM review, CDM guidance and JI guidance) and the Paris agreement (Article 6). Participating in International civil aviation organization (ICAO) process as GMTF and AFTF expert from UNFCCC on issues related to CORSIA.

Prior joining the UNFCCC, consecutively for four years elected from the Asia pacific region as expert member to support four technical bodies under the CDM – Executive Board in areas development of quantification and evaluation of GHG impacts by mitigation activities, assessment of GHG mitigation (CDM) projects and performance evaluation of DOE under the CDM. Have experience in implementation of energy efficiency measures in more than 50 industrial facilities. The only member ever to participate in all the four technical bodies. Passionate and believer of international co-operative and market mechanisms as one of the key in achieving the ultimate objective of the Paris agreement and convention.

SESSION 1:

MARKET MECHANISMS UNDER THE UNFCCC



Tong Qing

Associate Professor, Tsinghua University, China

The Institute of Energy, Environment, and Economy, Tsinghua University (3E), established in 1980, is a university-wide interdisciplinary research and education institution. 3E is among the pioneers in terms of research on energy systems analysis and climate changes among Chinese universities. 3E has been selected as a key national center for Management Science and Engineering research and education by Ministry of Education. Now the institute has more than 60 researchers, including 7 full professors and 12 associate professors.

Tong Qing is an Associate Professor (Senior Engineer) at the Institute of Energy, Environment and Economy (3E), Tsinghua University. She is a national GHG Inventory Review Expert certified by UNFCCC as well as project leader of “Beijing GHG Inventory 2011-2014”, supported by Beijing Development & Reform Committee (2014-2016) and project leader of “Beijing CO₂ emission benchmarks for industries” supported by Beijing Development & Reform Committee (2013-2017).



Naoki Torii

Ministry of Environment, Japan

The Office of the Market Mechanisms in the Climate Change Policy Division of the Global Environment Bureau of Ministry of the Environment, Japan is in charge of issues relevant to market mechanisms both domestically and internationally including operationalization of the Joint Crediting Mechanism.

Naoki Torii has been involved in analyzing and implementing climate policy for past 7.5 years. As a chief administrator at the office of the market mechanism, his main responsibility is to operate and manage the JCM. He is also a member of Japan delegation to UNFCCC since COP18 supporting the negotiations on markets.



Peter Vis

Adviser, Decarbonisation of transport, DG Mobility & Transport, European Commission

Peter Vis has served as an Adviser at the European Commission in DG MOVE (Transport & Mobility) since 2015, where he specialises in the decarbonisation of transport. He has been involved in the development of the EU ETS and involved in the development of CORSIA in ICAO. Peter has worked for the European Commission in Brussels for 27 years, mostly in the areas of climate change, renewable energy and taxation. From 2010-2014 he was Head of Cabinet to the European Commissioner for Climate Action, Connie Hedegaard. He worked in the Cabinet of Andris Piebalgs, European Commissioner for Energy from 2007-2010. Prior to working at the European Commission, Peter worked for HM Customs & Excise (now HM Revenue & Customs) in the United Kingdom.

SESSION 2:

**PROGRAMMES AND PROJECTS IN COMPLIANCE MARKETS:
NATIONAL AND SUPRA-NATIONAL COMPLIANCE-RELATED PROGRAMMES**



Jong Ik Yoo

Director of Green Business Division, Korea Research Institute on Climate Change

The Korea Research Institute on Climate Change (KRIC) established in 2009 as the first public institution to support climate change issues for private and public sectors by local governments. Regards to the Korean Emissions Trading System (K-ETS), KRIC has support public and private stakeholders for operation and correspondence. Methodologies for Korean Offset Program have been studied and applied.

In 2007, Jong Ik Yoo's experiences with Emissions Trading Systems (ETS) have started. Jong Ik Yoo developed CDM projects for renewables (wind and solar) and energy efficiency (high efficiency lighting, CHP, etc.) for project owners. Jong Ik Yoo is also supporting verification bodies as the technical expert for EU ETS Aviation verification. Jong Ik Yoo has participated to set up the GHG regulation (incl. K-ETS) from 2012 and currently supports operational entity (government subsidiaries of building and aviation sector) of K-ETS for implementation.

SESSION 2:

**PROGRAMMES AND PROJECTS IN COMPLIANCE MARKETS:
NATIONAL AND SUPRA-NATIONAL COMPLIANCE-RELATED PROGRAMMES**

SESSION 3:**PROGRAMMES AND PROJECTS IN COMPLIANCE MARKETS:
SUB-NATIONAL COMPLIANCE-RELATED PROGRAMMES**

Rob Hamaliuk

Director – Emissions Inventory and Trading, Alberta Climate Change Office

The Alberta Climate Change Office is the provincial organization responsible for the design, development and implementation of climate policy within Alberta. This includes the Carbon Competitiveness Incentive Regulation (CCIR) which regulates large emitters in the province. As a means of compliance, large emitters may purchase and submit emission offsets from Alberta's offset system, which was established in 2007.

Rob Hamaliuk is the Director of Emissions Inventory and Trading within Alberta's Climate Change Office. Rob Hamaliuk is responsible for the implementation of Alberta's Offset System as well as emissions inventory and quantification. Rob Hamaliuk has two undergraduate degrees from the University of Alberta in Chemistry and Chemical Engineering, and an MBA in Natural Resource, Energy and Environment from the University of Alberta.

SESSION 3:**PROGRAMMES AND PROJECTS IN COMPLIANCE MARKETS:
SUB-NATIONAL COMPLIANCE-RELATED PROGRAMMES**

Adria Fradley

Director, Industrial Reporting and Control, Climate Innovation and Solutions Branch, Province of British Columbia

The British Columbia Climate Action Secretariat is the government agency responsible for meeting the Province's greenhouse gas reduction targets by coordinating climate action activities across Government and with stakeholders. The Secretariat has a mandate to ensure an innovative, coordinated and effective approach to climate action in British Columbia, leading and engaging the broad public sector, municipal and regional efforts to achieve carbon neutrality, leading international, national and regional initiatives to promote trans-boundary approaches to climate action; conducting engagement and outreach with British Columbians; working with industry to advance low carbon business opportunities; and setting research priorities and promoting a better understanding of the impacts of climate change. The work of the Climate Action Secretariat has significant economic and financial implications for British Columbia through such activities as carbon pricing and the development of international carbon markets.

Adria Fradley is the Director of Industrial Reporting and Control within British Columbia's Climate Action Secretariat. The Industrial Reporting and Control Team leads policy development and projects related to industrial operations and is responsible for the implementation and administration of the Greenhouse Gas Industrial Reporting and Control Act. This includes the oversight and administration of: industrial emission reporting; regulated operations compliance; LNG Environmental Incentive Program; offset issuance; BC Carbon Registry; and compliance and enforcement. Adria Fradley has 15 years' experience in the design and implementation of environmental and natural resource policies and programs in British Columbia.



Pierre Bouchard

Senior Policy Advisor, Carbon Market Department, Québec Ministry of Sustainable Development, Environment and Fight against Climate Change

As part of the Québec Ministry of Sustainable Development, Environment and Fight against Climate Change, the Carbon Market Department is responsible for the development and implementation of the Québec Cap-and-Trade for GHG emissions, including development and maintenance of regulatory, technical and information technology tools. The Department is also responsible for the coordination of the Québec Government contribution in the implementation of an effective carbon market in North America.

Pierre Bouchard is a senior policy advisor, with more than 15 years of experience in climate change and environmental policies for the Québec Government and the United Nations. Working for the Carbon Market Department, he coordinates the activities of the Offset component of the Québec Cap-and-Trade system, including the development of offset protocols. Prior to that, Pierre Bouchard worked for the United Nations Climate Change Secretariat in the implementation of the Clean Development Mechanism and supporting international negotiations on technology development and transfer leading up to the Paris Agreement.

SESSION 3:

PROGRAMMES AND PROJECTS IN COMPLIANCE MARKETS: SUB-NATIONAL COMPLIANCE-RELATED PROGRAMMES



Kelley Hamrick

Senior Associate, Forest Trends' Ecosystem Marketplace

Launched as a web-based information platform in 2004, Forest Trends' Ecosystem Marketplace publishes newsletters, breaking news, original feature articles and major reports about market-based approaches to conserving ecosystem services. Our most widely-read reports include the State of Voluntary Carbon Markets and State of Forest Carbon Finance report series; we also produce targeted, shorter reports examining forest carbon project co-benefits, voluntary carbon offset buyers, and regional voluntary carbon offsetting trends.

Kelley Hamrick is a Senior Associate at Forest Trends' Ecosystem Marketplace initiative. She has authored flagship annual reports on voluntary and forest carbon markets, clean cookstove markets and, most recently, on conservation impact investing.

SESSION 4:

PROGRAMMES AND PROJECTS IN VOLUNTARY MARKETS



Takahiro Kirihara

Ministry of Economy, Trade and Industry, Japan

The mission of the Ministry of Economy, Trade and Industry of Japan (METI) is to develop Japan's economy and industry by focusing on promoting economic vitality in private companies and smoothly advancing external economic relationships, and to secure stable and efficient supply of energy and mineral resources.

Takahiro Kirihara belongs to "Environmental Economy Office, Industrial Science and Technology Policy and Environment Bureau", which is in charge of Japanese domestic policy of global warming countermeasures in METI. Takahiro Kirihara usually discusses on climate issues with many Japanese private companies and/or industrial associations as a researcher to shape policies.

SESSION 4:

PROGRAMMES AND PROJECTS IN VOLUNTARY MARKETS

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Max DuBuisson

Policy Director, Climate Action Reserve

The Climate Action Reserve develops, promotes, and supports credible market-based climate change solutions that benefit economies, ecosystems and society. As the most trusted carbon offset registry for the North American carbon market, the Reserve encourages action to reduce greenhouse gas (GHG) emissions by ensuring the environmental integrity and financial benefit of emissions reduction activities.

As Director of Policy for the Climate Action Reserve, Max DuBuisson helps shape the direction of the Reserve's policy activities. He oversees the development of new emissions reduction project protocols, as well as the maintenance and interpretation of existing protocols. His areas of particular focus include grassland, livestock methane, landfill gas, ozone depleting substances, energy efficiency, and renewable energy.



John Kadyszewski

Director, American Carbon Registry

The American Carbon Registry (ACR), a nonprofit enterprise of Winrock International, was founded in 1996 as the first private voluntary greenhouse gas registry in the world. A mission-driven institution named for philanthropist Winthrop Rockefeller, Winrock implements hundreds of projects in more than 50 countries. Winrock believes that climate change will have a profound impact on the poorest populations around the world and that markets are the most effective path to mobilize actions to reduce emissions. Winrock operates ACR to create confidence in the environmental and scientific integrity of carbon offsets in order to accelerate transformational emission reduction actions. As a pioneer in harnessing the power of markets to improve the environment, ACR has championed the importance of offset quality and continues to invest in finding innovative ways to reduce emissions or remove greenhouse gases from the atmosphere. ACR was approved as a California Offset Project Registry in December 2012 and has become the leading registry under the California Cap & Trade program with more than 80 million tonnes issued for this market as of January 2018. More information can be found at www.americancarbonregistry.org.

John Kadyszewski serves as Director for Winrock International's American Carbon Registry (ACR). With professional experience that spans renewable energy, sustainable biofuels, energy efficiency, ecosystem services, environmental markets, and measuring carbon storage in forestry, agroforestry, rangelands and agriculture, John has served as ACR's Director since 2008. He has led ACR's commitment to technical excellence, environmental integrity, and quality service. ACR has issued over 140 million tonnes of GHG reductions and has established itself as the leading Offset Project Registry for the California cap-and-trade program. John has an engineering degree from Princeton University.



Bernardo Lazo

Director of Partnerships and New Business Development, Gold Standard

Gold Standard is a standard and certification body established in 2003 by WWF and other international NGOs as a best practice standard to ensure environmental integrity and sustainable development provisions in carbon mitigation projects under the UN's Clean Development Mechanism (CDM). Now with more than 80 NGO supporters and 1400+ projects in over 80 countries, Gold Standard projects in compliance and voluntary carbon markets have created billions of dollars of shared value from climate and development action worldwide.

Bernardo Lazo is Director of Partnerships and Business Development at the Gold Standard Foundation. His role involves the relationship management, partnerships and fundraising activities with governments, multilateral institutions, private foundations and the Gold Standard's NGO Supporter Network. Bernardo brings his professional experience of over 12 years in the carbon markets and climate policy.



Sam Hoffer

Manager, VCS & CCB Programs, Verified Carbon Standard

VCS develops and manages standards that help countries, the private sector and civil society achieve their sustainable development and climate action goals. VCS manages the VCS Program, which is the world's most widely used voluntary GHG program, with more than 1,400 certified projects which have collectively reduced or removed nearly 250 million tonnes of GHG emissions from the atmosphere. More information can be found at <http://www.v-c-s.org/>.

Sam Hoffer serves as Manager of the VCS & CCB Programs where he is responsible for managing the VCS program management team and all program related operations. Sam Hoffer also leads the VCS OPR team in managing VCS' work as an offset project registry for the State of California. Sam has been with VCS since 2010.

SESSION 4:

PROGRAMMES AND PROJECTS IN VOLUNTARY MARKETS



Joanna Durbin

Director, Climate, Community & Biodiversity Alliance

The Climate, Community & Biodiversity Alliance (CCBA) is a partnership of five international non-governmental organizations: Conservation International, CARE, Rainforest Alliance, The Nature Conservancy and Wildlife Conservation Society (see <http://www.climate-standards.org/>). The CCBA develops standards, tools, safeguards, policy and governance assessments and monitoring systems to facilitate support and finance for land management activities that credibly mitigate global climate change, improve the wellbeing and reduce the poverty of local communities, and conserve biodiversity. The Climate, Community & Biodiversity (CCB) Standards identify land-based projects that deliver credible and significant social and environmental benefits with strong safeguards and have become the most widely-used multiple benefit standard for land-based carbon projects since their launch in 2005. The REDD+ Social & Environmental Standards (REDD+ SES) were launched in 2010 to support development of participatory, transparent and comprehensive safeguards information systems for government-led REDD+ programs.

Dr Joanna Durbin is the Director, Climate, Community & Biodiversity Alliance. Over the last ten years, Dr Joanna Durbin has led CCBA's development and management of standards and capacity building for social and environmental impacts of land-based carbon activities through transparent and inclusive multi-stakeholder processes. Joanna Durbin is a leading expert in safeguards and in social and biodiversity standards for land-management and REDD+ activities. She has over twenty-five years' experience facilitating community-led development, multi-stakeholder processes and good governance for effective biodiversity conservation and sustainable development in developing countries.

SESSION 4:

PROGRAMMES AND PROJECTS IN VOLUNTARY MARKETS

**SESSION 5:****REDD+ AND FORESTRY-RELATED PROGRAMMES IN VOLUNTARY MARKETS**

Vicky West

Climate Change Analyst, Forestry Commission, UK

The Forestry Commission is the department of forestry for governments in the UK. Its role is to protect and expand woodlands, increasing their value to society and the environment. Over the last decade we have been looking at financial incentives to encourage climate mitigation and woodland creation; one example is the development and management of the UK's Woodland Carbon Code, a voluntary standard for woodland carbon projects.

Dr Vicky West is Climate Change Analyst at the Forestry Commission and since 2010, has been leading the development and management of the UK's Woodland Carbon Code. Prior to the last 17 years working with trees, Vicky West's PhD was concerned with modelling changes in global climate.

**SESSION 5:****REDD+ AND FORESTRY-RELATED PROGRAMMES IN VOLUNTARY MARKETS**

Christopher Stephenson

Head of Operations, Plan Vivo Foundation

The Plan Vivo Foundation is an international charity, based in Scotland, which aims to relieve poverty in developing countries through sustainable land-use and forestry projects. The Foundation administers the Plan Vivo Standard, a tried and tested certification framework dating back to 1997. The Foundation issues verified emissions reductions, and ensures that carbon finance is put to work to benefit local livelihoods, restore and enhance ecosystems, while protecting biodiversity. More information can be found at <http://www.planvivo.org/>.

Chris Stephenson is a corporate sustainability professional with Master's degrees in Chemistry and Carbon Management. He heads up the Plan Vivo Secretariat and reports directly to the Board of Trustees of the Foundation. He oversees the development of the Plan Vivo Standard and its application to land use & forestry projects worldwide. Previously Chris Stephenson held roles in the private sector, for FTSE-100 and IBEX-35 companies in London & Madrid, as well as carrying out conservation and capacity-building work in Central America and Sub Saharan Africa.

SESSION 5:

REDD+ AND FORESTRY-RELATED PROGRAMMES IN VOLUNTARY MARKETS



Mario Boccucci

Head of Secretariat, UN Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries (UN REDD)

The United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries was launched in 2008 and builds on the convening role and technical expertise of the Food and Agriculture Organization of the United Nations (FAO), the United Nations Development Programme (UNDP) and UN Environment. The Programme supports nationally led REDD+ processes in 64 countries, and promotes the informed and meaningful involvement of all stakeholders, including indigenous peoples and other forest-dependent communities, in the implementation of REDD+ activities agreed under the UNFCCC. The overall development goal of the Programme is to reduce forest emissions and enhance carbon stocks in forests while contributing to national sustainable development. The Programme does not sell offsets or act as a broker in transactions but provide support to countries to develop and implement policies and measures with which to deliver REDD+ result based actions.

Mario Boccucci is the Head of the UN-REDD Programme Secretariat since 2013. Previously Mario Boccucci worked as the Chief of the Terrestrial Ecosystems Unit with UN Environment, with the World Bank as Senior Climate Change and Forests Specialist, and with the European Commission working on natural resources management and rural development. Mario Boccucci has more 25 years of experience with international organizations in country offices and headquarters on operational and policy work focused on sustainable management of terrestrial ecosystems, forest management, governance of natural resources, biodiversity, land uses and climate change mitigation and adaptation.

SESSION 5:**REDD+ AND FORESTRY-RELATED PROGRAMMES IN VOLUNTARY MARKETS**

Simon Whitehouse

Fund Manager, Forest Carbon Partnership Facility (FCPF), World Bank Group

The Forest Carbon Partnership Facility (FCPF) is a global partnership of governments, businesses, civil society, and indigenous peoples focused on reducing emissions from deforestation and forest degradation, forest carbon stock conservation, the sustainable management of forests, and the enhancement of forest carbon stocks in developing countries (activities commonly referred to as REDD+). The FCPF has two separate but complementary funding mechanisms — the Readiness Fund and the Carbon Fund — to achieve its strategic objectives. The World Bank is the Trustee of both funding mechanisms, provides secretariat services through a Facility Management Team and is the sole implementing agency for the Carbon Fund.

Simon Whitehouse is a Senior Financial Officer at the World Bank and serves as Fund Manager for the Forest Carbon Partnership Facility (FCPF). He has worked at the World Bank since 2008. Prior to joining the World Bank, Simon served as Director of Finance (Chief Finance Officer) for a number of large international development agencies and non-profits with annual budgets of up to US\$130 million. He has more than 20 years of financial experience and international development experience, nearly half of which have been spent working on carbon finance and REDD+. Simon is a UK Chartered Accountant and holds an Honors B.A. in Politics and Sociology from the University of York. He has lived and worked in Pakistan/Afghanistan, Kenya and Tanzania.

SESSION 5:**REDD+ AND FORESTRY-RELATED PROGRAMMES IN VOLUNTARY MARKETS**

Chris Henschel

Programme Manager for Ecosystem Services, FSC International



Urs Ziegler

Head Environmental Affairs Section, Federal Office of Civil Aviation, Switzerland and CAEP-GMTF co-Rapporteur

Dr. Urs Ziegler was born in Chur, Switzerland on 24/12/1960. After having completed his studies in natural sciences he worked in the field of environmental protection for a civil engineering company as well as for more than 10 years for the Swiss Office for Environmental Protection. During this time he also acquired a masters degree in public administration. In early 2005 he joined the Swiss Federal Office of Civil Aviation as Head of the Office's Environmental Protection Unit. He is the Swiss CAEP member and has been elected chairman of this Committee for its triannual meetings in 2010, 2013 and 2016. He currently co-chairs CAEP's Global Market-based Measures Task Force GMTF.

**PANEL DISCUSSIONS:
VERIFICATION**



Jose Luis Hernandez

CSA Group Canada, International Organization for Standardization (ISO)

ISO is an independent, non-governmental international organization with a membership of 162 national standards bodies and 777 technical committees and subcommittees, headquartered in Geneva, Switzerland. ISO has published more than 22,000 International Standards and related documents, covering almost every industry, from technology, to food safety, to agriculture and the environment and climate change. ISO has developed a suite of International Standards aimed at providing an internationally agreed framework for measuring GHG emissions, verifying claims, and accrediting the bodies which carry out such activities. These standards are seen as essential to the GHG markets for cap-and-trade, offset credits, and carbon labelling of products and events.

Jose-Luis Hernandez works for the Canadian Standards Association (CSA) as Program Manager for Environment and Climate Change. Jose-Luis has 20 years of extensive experience in standards development and conformity assessment in the climate change, environmental, energy efficiency and electrical safety areas. He is also responsible to manage the various CSA Registries, which include the carbon registry of the Canadian Province of Alberta. He has held the International Secretary of various ISO Committees related to climate change, the environment, and sustainable development in communities. He is currently the Secretary of the ISO Climate Change Coordinating Task Force and is representing ISO at this event.

**PANEL DISCUSSIONS:
VERIFICATION**



Chikako Makino

Japan Accreditation Board (JAB), International Accreditation Forum (IAF)

Chikako Makino has worked in the area of environment, energy, climate change in relation to verification, certification and accreditation since 1997. She developed the accreditation program ISO14065 at Japanese accreditation body since 2010, then worked at Deputy Director of Conformity Assessment Division of Ministry of Economy, Trade and Industry. Chikako Makino serves as the Vice Chair of Pacific Accreditation Corporation's Technical Committee, and Co-Chair of Greenhouse Gas and Energy Working Group at International Accreditation Forum and Pacific Accreditation Corporation. Chikako Makino also serves as ISO TC207/SC7/WG7 Co-Convener, ISO 14080 Guidance with framework and principles for methodologies on climate actions. She is an alumni of Kellogg School of Management.

**PANEL DISCUSSIONS:
VERIFICATION**



H el ene Manzoni

Lead EU ETS Verifier, Verifavia

VERIFAVIA is a global independent accredited environmental verification, certification and auditing body for aviation, airports and maritime transport. It is the world's leading verifier for aviation as the company verifies each year about 30% of the world's airlines in the EU ETS.

H el ene Manzoni has more than ten years of experience in the environmental impact of aviation emissions. She was Air Quality and Emissions project engineer at the French DGAC before joining ICAO to support the CAEP/9 cycle work programme as seconded environmental officer. She then spent four years at Emirates Airline, in charge of the fuel monitoring system and the fleet environmental performance indicators reporting, including EU ETS. H el ene Manzoni joined Verifavia in 2017 as EU ETS verifier for the aviation sector and has audited numerous aircraft operators worldwide.

**PANEL DISCUSSIONS:
VERIFICATION**



Thibaut Millet

Partner, Climate Change & Sustainability Services, Ernst & Young s.r.l./S.E.N.C.R.L.

The EY Climate Change and Sustainability Services teams support organizations around the world as they focus on the environmental, social and economic impacts of climate change and the drive for sustainability. The professionals in EY's climate change and energy teams focus on helping organizations develop their carbon and climate finance strategies, greenhouse gas and energy programs, green bonds, climate risk and vulnerability assessments.

Thibaut Millet is a Partner and National leader of EY's Climate Change & Sustainability practice in Canada. He has 20 years of experience in providing services to leading Canadian and international clients in the field of climate change and sustainability. He is a recognised sustainability strategist and has developed innovative solutions to help EY's clients create long term, sustainable value; manage greenhouse gas emissions and develop strategic approaches to climate risks & opportunities.

**PANEL DISCUSSIONS:
VERIFICATION**



Jessica Verhagen

VP Strategy & Business Development, Ecosphere+

Ecosphere+ protects forests around the world, which is one of the most immediate and cost-effective ways to combat climate change. We are part of the impact fund, Mirova Althelia, that has invested over €100 million in forestry conservation and now has the largest portfolio of forest carbon. The offsets generated are independently verified against the Verified Carbon Standard & the Climate, Community and Biodiversity standard and meet the impact reporting requirements of our investors which include Credit Suisse, BNP Paribas and the European Investment Bank. Our projects are in some of the world's most threatened natural ecosystems such as Peru, Guatemala and Indonesia and have many local co-benefits beyond carbon that support meeting other Sustainable Development Goals such as gender equality and poverty reduction. Ecosphere+ works with our clients to use forest carbon as part of an integrated strategy to meet greenhouse gas targets, deforestation-free commitments, address investor concerns on climate-related risks as well as engage customers and employees on their environmental and social concerns.

Jessica Verhagen is responsible for driving demand in emerging carbon markets including CORSIA. She has been at the intersection of environment and finance for over twelve years, working in the British Columbia government designing North America's first carbon tax and the Western Climate Initiative's cap and trade system. She then worked with the founding team to launch Evok Innovations, a private sector \$100 million fund that invests in clean technologies to reduce greenhouse gases, followed by rolling up her sleeves in one of the world's top 100 cleantech companies to raise capital and develop the go to market strategy. Jessica Verhagen is focused providing airlines with high quality offsets that address multiple corporate goals and growing digital solutions such as blockchain.

**PANEL DISCUSSIONS:
VERIFICATION**