



UNFC EUROPE

ENSURING SUSTAINABLE RAW MATERIAL MANAGEMENT TO SUPPORT THE EUROPEAN GREEN DEAL

VIRTUAL WORKSHOP - 19 NOVEMBER 2020
10.00 - 12.00 & 14.00 - 16.00 (CEST)

Europe's new growth strategy aims to transform the region into a modern, resource-efficient and competitive economy. The grand objective of the European Green Deal is to become net-zero GHG emission by 2050, promote the circular economy and enhance social responsiveness.

The action plan to achieve these objectives in a time-bound manner includes channeling massive investments in green technologies, driving industry innovation, promoting decarbonization, and promoting global partnerships for improved standards.

Sustainable production and use of raw materials, primary and secondary, underpin the successful realization of the objectives of the new Green Deal. Effective management can be implemented if quality data and information on their social-environmental-economic viability, technological feasibility and risks are available. Structured and harmonized information could be obtained using the United Nations Framework Classification for Resources (UNFC) and its derivative United Nations Resource Management System (UNRMS).

The workshop will feature perspectives and experiences in the application of UNFC for raw material management in Europe in two sessions focusing on (1) Vision and strategy for sustainable raw material management, and (2) Case studies on raw material resource assessment and management.

Register for the virtual workshop, here: www.eventbrite.co.uk/e/unfc-europe-tickets



AGENDA

Session 1: Vision and Strategy for Sustainable Raw Materials Management

10:00 – 12:00 CEST ; Moderator: David MacDonald, Chair, UNECE - EGRM

Speakers:

1) Scott Foster, Director, Sustainable Energy Division, UNECE – Sustainable Management of Natural Resources and the UN Decade of Action

2) Peter Handley, Acting Director, Sustainable Industry and Mobility, DG GROW, European Commission - How can UNFC contribute to the European Green Deal and the EU Raw Materials Policy?

3) Emil Högberg, State Secretary to Minister for Business, Industry and Innovation, Sweden – National perspectives on raw material resource sustainability

4) Zdenek Venera, President, EuroGeoSurveys (EGS) and Director of Czech Geological Survey – Contribution of EuroGeoSurveys Members to UNFC and UNRMS

5) Peter van de Ven, Head of National Accounts, OECD Statistics Directorate – SEEA Framework and Raw Materials Reporting

6) Tom Butler, CEO, International Council of Mining & Metals (ICMM) – Global Mining Outlook, Sustainability Initiatives and Challenges

- Q&A and Discussions
- Statements / messages for audience
- Concluding remarks

Session 2: Case studies and expert opinions on application of UNFC

14:00 – 16:00 CEST; Moderator: Slavko Solar, Secretary General, EGS

Speakers:

1) Harikrishnan Tulsidas, UNECE – UNFC Mineral Specifications and UNFC Europe

2) Zoltán Horváth, MBFSZ, Hungary – UNFC in Europe: A Review of Good Practices from Geological Surveys

3) Soraya Heuss-Aßbichler, Ludwig-Maximilians-Universität München and **Ulrich Kral**, Technische Universität Wien – UNFC for Anthropogenic Resources: Application Examples

4) Janja Knežević Solberg, Geological Survey of Norway – UNFC Case Study on Graphite

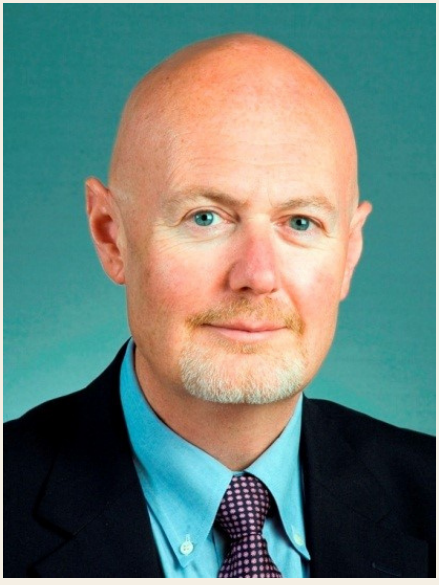
5) Pasi Eilu, Geological Survey of Finland – The Jouhineva Co-Cu-Au Deposit, Finland: The 1984 Mineral Resource Mapped into UNFC

6) Erika Ingvald, Geological Survey of Sweden – UNFC Case Studies and Industry Perspectives from Northern Europe

- Q&A and Discussions
- Statements / messages for audience
- Concluding remarks

SESSION 1: VISION AND STRATEGY FOR SUSTAINABLE RAW MATERIAL MANAGEMENT

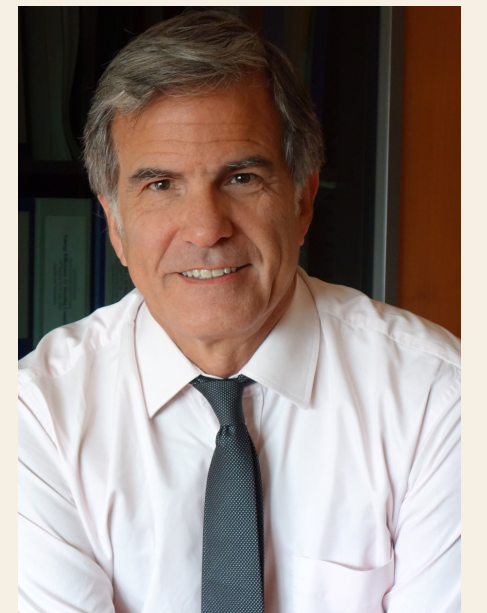
Moderator: David MacDonald, Chair, UNECE Expert Group on Resource Management



David MacDonald is internationally recognised as one of the leading experts on reserves and resources classification, estimation, management and disclosure. During his 38 year career at BP he had a proven record of successful design, implementation and management of internal governance and operating practices for reserves and resource valuation and progression. He is the current chair of United Nations Expert Group on Resource Management where he has overseen the publication of the United Nations Framework Classification for Resources (UNFC) and the development of the United Nations Resources Management System (UNRMS).

1) Scott Foster, Director, Sustainable Energy Division, UNECE

Scott Foster has been Director of UNECE's Sustainable Energy Division since 2011. With more than 35 years' experience in energy, Mr. Foster has worked extensively with governments, industry, and international organizations on energy policy, market design and regulation, and climate change strategies. Mr. Foster's particular focus recently has been assisting energy stakeholders address the critical challenges of sustainability, technology choice, and investment mobilization. Before founding Nomad Energy Consulting in 2004, Mr. Foster was VP of Global Regulatory Affairs with AES Corporation, Senior Director for Global Power with Cambridge Energy Research Associates (CERA), and Senior Expert on Electricity for the International Energy Agency.



2) Peter Handley, European Commission, DG GROW



Peter Handley joined the European Commission in 2001. Peter is currently Acting Director for Sustainable Industry and Mobility in the European Commission's Directorate-General for the Internal Market, Entrepreneurship and SMEs. He also heads the unit responsible for Energy-Intensive Industries and Raw Materials. Previously, he worked on energy, climate and environmental policy and was a European Commission trade official. He has also served as head of unit in different DGs.

3) Emil Högberg, State Secretary to Minister for Business, Industry and Innovation, Sweden

State Secretary to Minister for Business, Industry and Innovation, Sweden, responsible to the Head of the Ministry or other minister for the work of the ministry. Duties include planning and coordination in Industry, Tourism, Regulatory simplification, Competition, Intellectual property law, State aid, Entrepreneurship, and Innovation. Also the State Secretary with administrative responsibility at the Ministry of Enterprise and Innovation.



4) **Zdenek Venera**, President of EGS and Director of Czech Geological Survey



Zdenek has been working as the director of the Czech Geological Survey since 2004. He works in the field of Earth sciences for decision - making in the field of mineral resources, groundwater, geological risks and the environment. He is the representative of the Czech Republic in the Committee for Environmental Protection within the system Antarctic treaties. He is also a member of the Czech Geological Society, the Czech Tectonic Group, Central Europe tectonic groups. Since 2015, he has been a member of the Scientific Council of the Minister of the Environment. Zdenek also served as a permanent guest of the Council for Research, Experimental Development and Innovation.

5) **Peter van de Ven**, Organisation for Economic Cooperation and Development (OECD)

Peter van de Ven is Head of National Accounts at the OECD. After various positions in the field of national accounts and government finance statistics, he was Director of National Accounts, from 2003 up to 2011. In 2011, he joined the OECD, in his current position. He is responsible for (non-financial and financial) national accounts, environmental-economic accounting and composite leading indicators. Peter has always been heavily involved in international discussions on the enhancement of statistics, with a particular focus on national accounts, government finance statistics, environmental-economic accounting and satellite accounting more generally. Peter is a member of the Advisory Expert Group (AEG) on National Accounts from its start; and member of the UN Committee of Experts on Environmental-Economic Accounting (UNCEEAA), also from its start.



6) **Tom Butler**, International Council of Mining & Metals (ICMM)



Tom Butler has been CEO of ICMM since July 2015. Before that, he spent 18 years with the International Finance Corporation (part of the World Bank Group) in the infrastructure and natural resource teams, focused mainly on mining and power projects in Africa. From 2011, Tom was IFC's Global Head of Mining, where he led a multi-disciplinary team of specialists responsible for IFC's financing of mining exploration and development in emerging market countries.

Moderator: Slavko Solar, EuroGeoSurveys



Is a Mineral Resource Geologist who worked as an exploration geologist (1984-1991) and then moved on to the position of Head of Unit of the Economic Geology Department from 1991-1997 at the Geological Survey of Slovenia. There afterwards he became a consultant/adviser for the Slovenian government and industry on minerals, resources management and sustainability and was coordinator of the Mining Public Service until 2012. From 2012 to 2016, he was a seconded national expert to the European Commission, DG GROWTH, Unit C2 "Resource Efficiency and Raw Materials". Afterwards he served as a Senior Scientific Officer at DG Joint Research Centre (JRC) in the Land Resources Unit.

1) **Harikrishnan Tulsidas**, United Nations Economic Commission for Europe

Harikrishnan Tulsidas has over 30 years of experience in the management of natural resources and materials, including extensive experience in exploration, resource evaluation, classification, techno-economic feasibility studies, sustainable energy development, data analysis, information processing, simulation studies, public reporting and innovation management. Mr Tulsidas currently works as Economic Affairs Officer in the United Nations Economic Commission for Europe (UNECE). He leads the development, maintenance and application of the United Nations Framework Classification for Resources (UNFC) and United Nations Resource Management System (UNRMS).



2) **Zoltán Horváth**, Mining and Geological Survey of Hungary



Is the head of the Department of Mineral Resource Inventory and Concession Affairs in the Mining and Geological Survey of Hungary (MBFSZ). His special field is the modernization of mineral resource inventory based on mapping between national classification, CRIRSCO types reporting systems and International reporting codes and UNFC/UNRMS including professional and legislative issues. He represents the EuroGeoSurveys in Bureau of the UNECE EGRM and the MBFSZ in the EC DG Grow, Raw material Supply Group. He was involved in many EU-projects dealing with sustainable resource management and mineral safeguarding.

3) **a. Soraya Heuss-Aßbichler**, Ludwig-Maximilians-Universität-München

Dr. Soraya Heuss-Aßbichler is a professor for mineralogy at the Department for Earth and Environmental Sciences of Ludwig-Maximilians Universität in Munich, Germany. She was leader of the working group "Classification and reporting of anthropogenic material resources/reserves", a pan-European expert network on "Mining the European Anthroposphere" (COST Action MINEA) and member of the UNECE Anthropogenic Resources Working Group to apply the United Nations Framework Classification for Resource (UNFC).



3) b. Ulrich Kral, Technische Universität Wien



Educated in Austria, Dr. Kral has a background in civil engineering and holds a post-doc position at the Research Center of Waste and Resource Management at Technische Universität Wien. His research focuses on the life cycle of materials in the anthroposphere, in particular on methodologies and case studies to analyze, evaluate and manage material stocks and flows. The results provide a basis for decision-making in resource and environmental management. Special activities include the research on material cycles and final sinks, and on the assessment of resource potentials in the anthroposphere. As leader of the UNECE Anthropogenic Resource Working Group, he supports the promotion and development of the United Nations Framework Classification for Resources (UNFC).

4) Janja Knežević Solberg, Geological Survey of Norway

Janja Knežević Solberg: M.Sc. in Geology/Geophysics, University of Belgrade. Since 2006 Janja has been working as Database geologist, Exploration geologist with experience in exploration of precious metals according the National Instrument 43-101 guidelines (the Dundee Precious Metals, Bor), and as Teaching Assistant (the Union Nikola Tesla University, Belgrade). Since 2013 Janja has been working at the Geological Survey of Norway with mineral resources databases improving data and structure for land management applications and exploration. From 2016 Janja has been working with geological and geophysical exploration of graphite deposits in Norway.



5) Pasi Eilu, Geological Survey of Finland



Pasi Eilu is a Senior Scientist at Geological Survey of Finland and Adjunct Professor at University of Turku, Finland. He has a 35 years professional experience in research and training on mineral deposit geology and exploration in Finland, Sweden, Norway, Greenland, Australia, and several countries in Africa, for both the academia and the mining companies. Pasi Eilu has worked on mineral deposit databases, mineral resource, and mineral raw material supply issues. He is the International Coordinator of the Fennoscandian Ore Deposit Database which is a permanent, four-country, cooperation structure.

6) Erika Ingvald, Geological Survey of Sweden

Erika Ingvald is Head of Division, Mineral Information and Mining Industry at the Geological Survey of Sweden (SGU), focusing on sustainable metals and minerals value chains nationally, on a European and a global level. Erika is Sweden's representative in the UNECE Expert Group on Resource Management (EGRM), and one of the vice chairs in its Bureau. EGRM is responsible for the promotion and further development of the United Nations Framework Classification for Resources (UNFC).

