Petroleum Work Group
2018-2019 Review and Future Plans
- PWG Vision Mission
- Membership 2018-19
- PWG Projects 2018-19
- Membership 2019-2020
- Future Projects
- UNFC in Global Context
- Concluding Remarks
Vision

- PWG vision is to be the premier Petroleum expertise repository for UNFC with the primary goal of achieving Sustainable Development Goals (SDG’s) through implementation of UNFC globally as a total resource classification and management system which can be used by a variety of interested entities to make policy and business decisions on energy.

Mission

- PWG mission is to proactively work with country stakeholders, develop UNFC petroleum specifications and guidelines, conduct pilot studies, hold workshops, promote uptake of UNFC in interested countries, provide advice on the realization of SDG’s by using UNFC.
<table>
<thead>
<tr>
<th>Member</th>
<th>Affiliation</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Andrew Barrett</td>
<td>Geoscience Australia</td>
<td>Australia</td>
</tr>
<tr>
<td>Ms Vera Bratkova</td>
<td>Russian State Committee on Mineral Reserves (GKZ)</td>
<td>Russia</td>
</tr>
<tr>
<td>Mr Jan Bygdevoll</td>
<td>NPD</td>
<td>Norway</td>
</tr>
<tr>
<td>Mr Simplicio Calyong</td>
<td>CCOP Secretariat</td>
<td>Thailand</td>
</tr>
<tr>
<td>Ms Narmina Garayeva</td>
<td>Independent Expert</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Mr Olaf Klarner</td>
<td>Coordinator of EFG PG</td>
<td>Europe</td>
</tr>
<tr>
<td>Mr Ulises Neri</td>
<td>NCH</td>
<td>Mexico</td>
</tr>
<tr>
<td>Mr Felix Bob Ocitti</td>
<td>Petroleum Authority of Uganda</td>
<td>Uganda</td>
</tr>
<tr>
<td>Mr Satinder Purewal (CHAIR)</td>
<td>Polestar Oil &amp; Gas Ltd/Imperial College</td>
<td>UK</td>
</tr>
<tr>
<td>Mr Dominique Salacz</td>
<td>Evolution Resources</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Mr Alexandr Shpilman</td>
<td>Research Institute, Tyumen</td>
<td>Russia</td>
</tr>
<tr>
<td>Mr Narender K. Verma</td>
<td>ONGC Videsh Ltd</td>
<td>India</td>
</tr>
<tr>
<td>Ms Hua Yang</td>
<td>CNPC International Research Centre</td>
<td>China</td>
</tr>
</tbody>
</table>

Other Members & Associates: Claudio Virues; Jim Jenkins, Fidel Toquero, Steve Griffiths; Barbara Pribyl & Zhenhua Rui joined Jan 2019
PWG Projects
2018-19 – Status

- UNFC Specifications and Guidelines for Petroleum
  - Key Chapter 3 is almost 80% complete – PARTIALLY COMPLETED
- Comparison Review of Global Classification Systems - COMPLETED ✔
- Mexico Pilot (Case Study) – COMPLETED ✔
- Mapping of other systems to UNFC
  - Awaiting update of UNFC
- Chinese Classification system to UNFC (Case Study)
  - Bridging Documents signed in September 2018; awaiting data
- RF2013 Classification to UNFC (A case study)
  - Awaiting data from RF
UNFC Specifications and Guidelines for Petroleum
  - Complete by EGRM 11

Mexico Pilot Extension (Case Study)
  - Subject to finance availability

Mapping to UNFC
  - Await update of UNFC

Chinese Classification system to UNFC (Case Study)
  - Subject to finance availability; awaiting data

RF2013 Classification to UNFC (A case study)
  - Awaiting data from RF

Coal Bed Methane (Case Study)
# PWG Members 2019-20

<table>
<thead>
<tr>
<th>Member</th>
<th>Affiliation</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr Satinder Purewal (CHAIR)</td>
<td>Imperial College/Polestar Oil and Gas Ltd</td>
<td>UK</td>
</tr>
<tr>
<td>Mr Andrew Barrett</td>
<td>Geoscientist</td>
<td>Australia</td>
</tr>
<tr>
<td>Ms Olga Trofimova</td>
<td>Russian State Committee on Mineral Reserves (GKZ)</td>
<td>Russia</td>
</tr>
<tr>
<td>Ms Barbara Pribyl</td>
<td>Santos</td>
<td>Australia</td>
</tr>
<tr>
<td>Mr Claudio Virues</td>
<td>AER</td>
<td>Canada</td>
</tr>
<tr>
<td>Mr Fidel Juarez Toquero</td>
<td>CNH</td>
<td>Mexico</td>
</tr>
<tr>
<td>Ms Narmina Garayeva</td>
<td>Independent Expert</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Mr Olaf Klarner</td>
<td>Coordinator of EFG PG</td>
<td>Europe</td>
</tr>
<tr>
<td>Mr Zhenhua Rui</td>
<td>MIT</td>
<td>USA</td>
</tr>
<tr>
<td>Mr Felix Bob Ocitti</td>
<td>Petroleum Authority of Uganda</td>
<td>Uganda</td>
</tr>
<tr>
<td>Mr Martin Hubbig</td>
<td>OMV</td>
<td>Austria</td>
</tr>
<tr>
<td>Mr Alexandr Shpilman</td>
<td>Research Institute, Tyumen</td>
<td>Russia</td>
</tr>
<tr>
<td>Mr Akshay Audhkhasi</td>
<td>ONGC Videsh Ltd</td>
<td>India</td>
</tr>
<tr>
<td>Ms Hua Yang</td>
<td>CNPC International Research Centre</td>
<td>China</td>
</tr>
</tbody>
</table>
UNFC Applications by PWG

Mexico Pilot
- Carried out during June-December 2018
- Joint study by PWG, CNH, SENER and ASEA
- 23 blocks categorized according to UNFC
- Used social and environmental issues to categorize project maturity levels
- Only one of its kind for Petroleum (as far as PWG is aware)
- Paper written for EGRM10
- Major milestone for practical application of UNFC
- Two Papers accepted for presentation at premier International Conference (SPE ATCE in Calgary 2019)
Vision:
- Achieve SDG’s by global UNFC uptake and implementation

Execution:
- Build on the highly successful Mexico Pilot
- Mexico Pilot Extension
- Roll out in Latin American Region e.g. Colombia and Brazil
- Roll out to Africa and Asia
- PWG goals endorsed by EGRM and key stakeholders
- Requires significant support
  - PWG members (Pro-active support)
  - From National Agencies
  - Finance
  - UNECE experts
UNFC use has been clearly demonstrated by success of the Mexico Pilot
  - Two papers will be presented in September at international conference

Why use UNFC instead of other classification systems?
  - PWG project reviewed global classification systems
  - A paper is expected to be presented in future
  - SWOT analysis shows there are similarities and differences

Key differentiators UNFC vis-a-vis other systems
  - Granular capture of Social and Environmental aspects
  - Project approvals would be linked to Some of the SDG’s
  - Applies to all resources
  - Numeric

What’s needed?
  - Global uptake of UNFC
  - Requires traction by appropriate authorities to mandate its use in country
  - A period of transition will be required for training and uptake (up to 5 years)
Challenges

‘Facts or Fiction?’

- ‘Why change to UNFC if my classification system works’
- ‘Costs involved in making the change’
- ‘Massive Training effort required’
- ‘Compliance – companies listed on stock exchanges use classification systems’ ‘doubles the costs for having two systems’
- ‘UNFC is too complex’
- ‘UNFC is relatively new while PRMS and CRISCO have been around longer’
- ‘How can UNFC be regularly updated with few volunteers while PRMS and CRISCO have supporting societies with large memberships’
- Etc. etc.

EGRM has to develop strategies to counter real and imagined myths with clear messages
Concluding Remarks

- A busy past year for PWG
- Completion of a successful Mexico Pilot Case Study
- Review of Global classification systems
- Two SPE Papers based on the Mexico Pilot in 2019
- Several projects planned for 2019-20
- Key Project: Specifications and Guidelines for Petroleum
- EGRM requires concerted efforts to promote UNFC uptake globally
Thank you

Professor Satinder Purewal
Chairman
Petroleum Work Group
Email