



**Innovation Session 2019**  
**Thursday, 2 May 2019**  
**8:30 am – 1:30 pm**  
**Johnson GeoCentre**

Time	Innovation Session Agenda	
8:30	<b>Registration &amp; Coffee/Muffins</b>	
9:00	<b>Welcome and Overview</b>	<b>Paul Griffin</b> President & CEO
9:30	<b>Session 1: Cold Ocean Overview</b>	
9:45	<b>Ice Engineering</b>	<b>Tony King</b> Director, Ice Engineering
9:45	<ul style="list-style-type: none"> <li>Performance design for safe, sustainable operations in harsh ocean environments from surface to subsea)</li> <li>Expertise/capability for environment characterization, ice risk assessment, design considerations, Ice management performance, overall design verification</li> <li>Key projects/activities locally and internationally</li> <li>Future work to support 2030 O&amp;G objectives including Supercluster Program and green energy developments</li> </ul>	
10:15	<b>Geotechnical Engineering</b>	<b>Gerry Piercey</b> Team Lead, Experimental Systems
10:15	<ul style="list-style-type: none"> <li>Core capability (geotech system design, guidance and performance verification using physical and comprehensive numerical modeling)</li> <li>Key projects, national and international (de-risking subsea developments and land-based pipeline systems)</li> <li>Forward-looking work</li> </ul>	
10:45	<b>Coffee Break &amp; Networking</b>	

11:00	<b>Session 2: Remote Sensing Overview</b>	<b>Des Power</b> VP, Remote Sensing
11:15	<p><b>Earth Observation</b></p> <ul style="list-style-type: none"> <li>• Satellite monitoring (river ice, sea ice, icebergs, wetlands, water quality, oil spill)</li> <li>• Applications of historical monitoring, as applied to risk assessments and decision support</li> <li>• Applications for maritime domain awareness, as applicable to defence</li> </ul>	<b>Sherry Warren</b> Deputy Director, EO
11:45	<p><b>Remote Sensing Systems</b></p> <ul style="list-style-type: none"> <li>• Synthetic aperture radar systems (transponders, measurement of ice thickness, biomass, etc.)</li> <li>• Nanosats and cubesats</li> <li>• Radar calibration and validation</li> <li>• Computer vision for industrial applications</li> </ul>	<b>Chris Fowler</b> Director, Systems
12:15	<b>Session 3 : LOOKNorth Overview</b>	<b>Paul Adlakha</b> Managing Director, LOOKNorth
12:15	<p><b>LOOKNorth</b></p> <ul style="list-style-type: none"> <li>• Commercialization of remote sensing innovations for satellite and remotely piloted aircraft systems (RPAS, formerly called UAV or UAS)</li> <li>• Development of downlink and processing infrastructure for space/airborne sensors</li> <li>• Advances in detect-and-avoid system, wireless charging for RPAS operations</li> <li>• Building remote sensing capacity in/for the North</li> <li>• Engagement opportunities for industry to apply innovations their challenges</li> </ul>	
12:30	Concluding Remarks	<b>Susan Kennedy</b> VP, Corporate Services
12:45-1:30 pm	<i>Luncheon &amp; Networking</i>	