
Dr. Alexey Portnov, Research Associate

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Education

- 2012-2015 **PhD degree.** CAGE - Centre for Arctic Gas Hydrate, Environment and Climate, UiT, The Arctic University of Norway, Tromsø, Norway. PhD thesis: “Role of subsea permafrost and gas hydrate in postglacial Arctic methane releases”. Study areas – South Kara Sea, Barents Sea, West Svalbard margin.
- 2003-2009 **Master’s degree.** Saint-Petersburg State University, Geological faculty, Department of Geophysics, Saint Petersburg, Russia. Specialty – “Geology and geophysics of sea and ocean”, Master’s degree thesis, “Identification of gas-saturated sediments in the upper section of the South Kara Sea sediment cover using high-resolution seismic and gas-geochemical data”.

Professional History

- 2021- Research Associate at the University of Texas at Austin, Jackson School of Geosciences, Austin, USA
- 2017-2020 Postdoctoral scholar at the Ohio State University, School of Earth Sciences, Columbus, USA
- 2016-2017 Postdoctoral scholar at CAGE - Centre for Arctic Gas Hydrate, Environment and Climate, UiT The Arctic University of Norway, Tromsø, Norway
- 2012-2015 PhD at CAGE - Centre for Arctic Gas Hydrate, Environment and Climate, UiT The Arctic University of Norway, Tromsø, Norway
- 2007-2010 Geophysicist at Otto Schmidt Laboratory. Saint-Petersburg, Russia and Kiel, Germany
- 2006-2012 Geophysicist at FSUE “I.S. Gramberg VNIIOkeangeologia”, Saint-Petersburg, Russia

Field Experience

- 2017 May Deep-water Gulf of Mexico. UT-GOM2-1 deep sea drilling project. Test of pressure coring technology in a gas hydrate reservoir. The effort is supported by the U.S. Department of Energy and links UTIG, the Department of Geological Sciences at the Jackson School of Geosciences, and the UT Department of Petroleum and Geosystems Engineering with Columbia University, Ohio State, the University of New Hampshire, the University of Oregon, the University of Washington, the USGS, and the BOEM.
- 2016 October Central Barents Sea, West Svalbard Margin. Installation of long-term marine bottom observatories in areas of active seafloor gas release. Scientific cruise of University of Tromsø and Centre of Excellence for Arctic Gas Hydrate, Environment and Climate
- 2016 June-July Fram Strait, West Svalbard Margin, Barents Sea (3D and 2D seismic survey, multibeam, OBS studies. Scientific cruise of University of Tromsø and Centre for Arctic Gas Hydrate, Environment and Climate)
- 2016 June Barents Sea, West Svalbard margin (ROV survey, hydroacoustic, biological, geochemical studies. Scientific cruise of University of Tromsø and Centre for Arctic Gas Hydrate, Environment and Climate)
- 2014 October Norwegian Sea, West Svalbard Margin (Scientific cruise of University of Tromsø and Centre for Arctic Gas Hydrate, Environment and Climate. Hydro-acoustic, 2D seismic and geological investigations in the areas of active gas plumes)
- 2014 June Norwegian Sea, West Svalbard Margin (Scientific cruise of University of Tromsø and Centre for Arctic Gas Hydrate, Environment and Climate. Hydro-acoustic, 2D seismic and geological investigations in the areas of intensive gas plumes)
- 2013 August Kara Sea (Supervisor in Rosneft and ExxonMobil joint project. Acoustic survey at the potential oil and gas fields)
- 2012 August Kara Sea, West Yamal Shelf (Complex gas-geochemical and high-resolution seismic survey)

2012 June Norwegian and Barents Sea (Scientific cruise of University of Tromsø, seismic survey 3D)
 2011 September Kara Sea (Scientific cruise in cooperation with “P.P. Shirshov Institute of Oceanology”, Moscow)
 2009-2011 Four expeditions in the South-China Sea (Gas-geochemical and seismic survey, under the contract with JSC “Vietgazprom”)
 2007 August Laptev Sea (Russian-German scientific cruise)
 2006 September Barents Sea (Geophysical and gas-geochemical survey, under the contract with JSC “Severneftegas”).

Cooperation with national and international research groups

- Ohio State University (USA)
- University of Texas at Austin (USA)
- Bureau of Ocean Energy Management (USA)
- US Geological Survey (USA)
- Chevron (USA)
- CAGE - Center for Arctic Gas Hydrate Environment and Climate, The Arctic University of Norway (Norway)
- CEED - Centre for Earth Evolution and Dynamics, Oslo University (Norway)
- VBPR-Volcanic Basin Petroleum Research (Norway)
- Marine Research Center, Moscow State University (Russia)
- Earth Cryosphere Institute of Tyumen Scientific Centre SB RAS (Russia)
- VNIIOkeangeologia - I.S. Gramberg All-Russia Scientific Research Institute of Geology and Mineral Resources of the World Ocean (Russia)
- VSEGEI - A.P. Karpinsky Russian Geological Research (Russia)
- GEOMAR - Helmholtz Centre for Ocean Research Kiel (Germany)
- OGS-National Institute of Oceanography and Experimental Geophysics (Italy)
- GNS Science (New Zealand)
- MGMC - Marine Natural Resources - Environment Survey Center (Vietnam)

Projects with industry and academia

2019-2020 “Gulf of Mexico Hydrate Mapping and Interpretation Analysis” project of the US Bureau of Ocean Energy Management and the Ohio State University. Exploration for new gas hydrate reservoirs.
 2017-2019 “UT-GOM-2: Methane Hydrates in the Gulf of Mexico”. Project focusing on methane hydrate as an unconventional future energy resource; lead by The University of Texas at Austin.
 2014 “Arctic-2014”. Analyses and interpretation of high-resolution seismic data in the areas of gas seepage in the northern Kara Sea, Laptev Sea and Chukchi Sea. Under the contract with PJSC Rosneft.
 2013 “Marine geochemical survey within the license block VP-1”. Acquisition of multibeam data, side-scan sonar data and chirp. Supervisor from Rosneft-Shelf Far East.
 2012 “Regional geological and geophysical studies at the South Kara Sea, off-Yamal peninsula”. Contract with the Federal Subsoil Resources Management Agency of Russia.
 2011 “Complex interpretation of regional geophysical and geochemical studies within blocks 129-132 of Vietnam continental shelf” under the contract with JSC “Sevmorneftegeophysica”. 2D seismic data interpretation complexed with regional geochemical survey directed on the evaluation of petroleum potential.
 2010 “Offshore geochemical survey in blocks 129, 130, 131, 132 on Vietnam’s continental shelf”. Performance of laboratory analysis and interpretation under the contract with JSC “Vietgazprom”.
 2010 “Provision of detailed geochemical survey on the licensed drilling sites Kolskiy-1, Kolskiy-2, Kolskiy-3” within Kolsko-Kaninskaya monocline on the Barents Sea shelf”. Under the contract with JSC “Severneftegas”.
 2008-2009 “SEDORA” project under the contact with “Shell”. High-resolution seismic data interpretation within Russian Arctic shelf. Development of the database of gas-related acoustic anomalies in the Barents Sea, Kara Sea, and Laptev Seas.
 2007-2008 “Estimation of oil and gas potential of Angola shelf within blocks 12, 13, 29, 30 based on the 2D seismic data” under the contract with “Sevmorgeologia”. 2D seismic data interpretation.
 2006 “Marine geological engineering studies within licensed polygons JSC “Severneftegas”, Kolsko-Kaninskaya monocline on the Barents Sea continental shelf” under the contract with JSC “Severneftegas”. High-resolution seismic data interpretation.

2005-2006 “Hydro-geochemical survey within the licensed blocks of JSC “Severneftegas”, Kolsko-Kaninskaya monocline at the Barents Sea continental shelf” under the contract with JSC “Severneftegas”.

Invited talks

2020 December AGU Fall Meeting, USA
2020 February University of Texas at Austin, Institute for Geophysics, USA
2020 January University of Houston, Earth and Atmospheric Science Department, USA
2019 October Russian Academy of Science and Moscow State University, Russia
2019 May Chevron Oil Company, Houston, USA
2018 May Stockholm University, Department of Geological Sciences, Sweden
2018 June Minerals of The Ocean – 9 research conference, Saint-Petersburg, Russia
2017 December Ohio State University, School of Earth Sciences, USA

Grants and funding

2019 Active IODP Proposal “Linking sediment deposition during glacial cycles and methane hydrate occurrence”. A. Cook (Lead Proponent), A. Portnov (Data Lead), A. Malinverno, S. Phillips, K. Thirumalai, E. Arellano Torres, R. Colwell, E., Soloman, J. Hillman, K. Weitemeyer, and P. Flemings. 961-APL.

2019 Bureau of Ocean Energy Management Award “Gulf of Mexico Hydrate Mapping and Interpretation Analysis” (109 700\$). A. Cook (PI), Alexey Portnov (Project Lead). Award #140M0119P0041

2016-2018 postdoc scholarship at UiT- The Arctic University of Norway 1.48 mln NOK (~177 000\$). Project proposal for postdoctoral fellowship entitled “Coupled response of gas hydrate and permafrost systems in Arctic petroleum provinces to post-glacial ice sheet retreat”

Awards

01.11.2019 – Certificate of Appreciation from Program Committee of “Marine Research and Education-2019” for being an invited lecturer at Moscow State University.

28.12.2009 – Diploma of “I.S. Gramberg VNIIOkeangeologia” for long-term conscientious working activity and scientific contribution in the research of ore stock of Russian shelf and the World ocean by the results of 2009 year.

28.12.2010 – Diploma of “I.S. Gramberg VNIIOkeangeologia” for long-term conscientious working activity and scientific contribution in the research of ore stock of Russian shelf and the World ocean by the results of 2009 year.

M.S., thesis mentor

Stuart Skopec, M.S. 2021 (expected). Topic: Gas hydrate exploration and characterization in the Gulf of Mexico

Gabriel Martinez, M.S. 2021 (expected). Topic: Sediment mass transport in the Gulf of Mexico. Ohio State University. Co-supervisor.

Ryan Heber, M.S. 2020. Topic: Gas hydrates offshore Norway. Ohio State University. Co-supervisor.

Academic Service

Reviewer for: *Geology, Journal of Geophysical Research, G-cubed, Marine and Petroleum Geology, Geosciences, Global Change Biology, Journal of Environment and Earth Science, Marine Geophysical Research.*

December 2018, AGU Fall Meeting Session Co-Convener and Co-Chair. Geological and Geophysical Characterization of Marine Gas Hydrate Reservoirs.

September 2018, co-organizer of GOM2 Gas Hydrate Drilling Workshop at the Ohio State University.

March 2018, discussion Leader at Gordon Research Conference on Natural Gas Hydrate Systems.

September 2016, co-organizer of Gas in Marine Sediments conference, Tromso, Norway.

June 2012, co-organizer of Minerals of The Ocean - 6 conference, Saint-Petersburg, Russia.

Outreach

- Geo-visualization channel on Youtube “Visualization Lab”, showing various techniques helping to communicate marine geophysical research, first presented at AGU conference, New Orleans, USA. “Make it fun for everyone: visualization techniques in geoscience”:
<https://www.youtube.com/c/VisualizationLabAlexeyPortnov>
- Invited speaker on Deloitte company YouTube podcast.
- Interviewed by several media-resources in English and Russian, e.g.
<https://www.smithsonianmag.com/science-nature/tiny-world-glacier-microbes-has-outsized-impact-global-climate-180959817/>
<http://barentsobserver.com/en/arctic/2015/01/alarm-over-kara-sea-permafrost-thawing-09-01>
http://www.gazeta.ru/science/2014/12/23_a_6355645.shtml

Training courses and seminars

October 2016	Geological course in Sicily, CAGE, The Arctic University of Norway
May 2015	Scientific presentation workshop (conducted by Melissa Marshall, Pennsylvania State University)
April 2014	ArcGIS training course, Arctic University of Norway, Tromsø, Norway
March 2014	QPS Fledermaus training course, Portsmouth, New Hampshire, USA
March 2010	HPR & HiPAP Acoustic Positioning courses, Kongsberg Maritime - Subsea Training Centre, Horten, Norway
May 2009	Saint-Petersburg State University, “Shell” company seminar, Saint-Petersburg, Russia
April 2008	Saint-Petersburg State University, “Schlumberger” company seminar, Saint-Petersburg, Russia

Additional information

PC – experienced user (Petrel, The Kingdom Suite, Fledermaus, Global Mapper, Surfer, ArcGIS, Geolog, Corel Draw, Mapinfo, Sonar Wiz, Microsoft Office and other)

Native Russian language, fluent English language, basics of Norwegian

Driving license – B category

Personal skills: excellent social skills, self-discipline, analytical thinking, responsible, punctual, result-oriented.

Peer Reviewed Articles

<https://scholar.google.cz/citations?hl=en&user=uCSI5HEAAAAJ>

- 22) Klasek, S., W.L. Hong, M. Torres, S. Ross, K. Hostetler, **A. Portnov**, F. Grundger, F. Colwell (2021, preprint) “Distinct methane-driven biogeochemical regimes in Arctic seafloor gas hydrate mounds”. *Nature Research*, *10.21203/rs.3.rs-93738/v1*
- 21) Flemings, P. B., S. C. Phillips, R. Boswell, T. S. Collett, A. E. Cook, T. Dong, M. Frye, D. S. Goldberg, G. Guerin, M. E. Holland, J. Jang, K. Meazell, J. Morrison, J. I. O’Connell, E. G. Petrou, T. Pettigrew, P. J. Polito, **A. Portnov**, M. Santra, P.J. Schultheiss, Y. Seol, W. Shedd, E. A. Solomon, C. M. Thomas, W. F. Waite, K. You (2020) “Pressure coring a Gulf of Mexico deep-water turbidite gas hydrate reservoir: Initial results from The University of Texas–Gulf of Mexico 2-1 (UT-GOM2-1) Hydrate Pressure Coring Expedition”, *AAPG Bulletin*, v. 104, no. 9 (September 2020), pp. 1847–1876 DOI:10.1306/05212019052
- 20) **Portnov, A.**, M. Santra, A.E. Cook, D.E. Sawyer (2020) “The Jackalope gas hydrate system in the northeastern Gulf of Mexico”. *Marine and Petroleum Geology*, <https://doi.org/10.1016/j.marpetgeo.2019.08.036>
- 19) Ferré, B., P. G. Jansson, M. Moser, P. Serov, **A. Portnov**, C. Graves, F. Gründger, C. Berndt, M. F. Lehmann, H. Niemann (2020) “Reduced methane seepage from Arctic sediments during cold bottom water conditions” *Nature Geoscience* *10.1038/s41561-019-0515-3*
- 18) **Portnov, A.**, A.E. Cook, D.E. Sawyer, C. Yang, J.I.T. Hillman, W.F. Waite (2019) “Clustered BSRs: Evidence for gas hydrate-bearing turbidite complexes in folded regions, example from the Perdido Fold Belt, northern Gulf of Mexico”. *Earth and Planetary Science Letters*, v. 528, p. 115843. <https://doi.org/10.1016/j.epsl.2019.115843>
- 17) Dvornikov, Y, M. Leibman, A. Khomutov, A. Kizyakov, P. Semenov, I. Bussmann, E. Babkin, B. Heim, **A. Portnov**, E. Babkina, I. Streletskaaya, A. Chetverova, A. Kozachek, H. Mayer (2019) “Gas-emission craters of Yamal and Gydan peninsula: starting stages for new lake formation.” *Permafrost and Periglacial Processes*, DOI: 10.1002/ppp.2014

- 16) Waage, M., **A. Portnov**, P. Serov, S. Bünz, K. A. Waghorn, S. Vadakkepuliambatta, J. Mienert, K. Andreassen (2019). "Geological Controls on Fluid Flow and Gas Hydrate Pingo Development on the Barents Sea Margin" *Geochemistry, Geophysics, Geosystems*, doi:10.1029/2018GC007930
- 15) Rekant, P., N.Sobolev, **A. Portnov**, A. Pakhalko, B. Belyatsky, V. Kaban'kov, I. Andreeva (2019) "Basement segmentation and tectonic structure of the Lomonosov Ridge, Arctic Ocean: Insights from bedrock geochronology" *Journal of Geodynamics* 128 (38-54). <https://doi.org/10.1016/j.jog.2019.05.001>
- 14) **Portnov, A.**, A. Cook, D. Sawyer, M. Heidari, M. Santra, M. Nikolinakou (2019) "Salt-driven evolution of a gas hydrate reservoir in Green Canyon, Gulf of Mexico". *AAPG Bulletin*, DOI: 10.1306/10151818125
- 13) Sawyer, D.E, Mason, R.A., Cook, A.E., and **Portnov, A** (2019) "Submarine landslides induce massive waves in subsea brine pools." *Scientific Reports*, v. 9, p. 128.10.1038/s41598-018-36781-7
- 12) Semenov, P., **A. Portnov**, A. Krylov, A. Egorov, B. Vanshtein (2019) "Geochemical evidence for seabed fluid flow linked to the subsea permafrost outer border in the South Kara Sea." *Geochemistry*. <https://doi.org/10.1016/j.chemer.2019.04.005>
- 11) Cook, A., **A. Portnov** (2019). "Comment on: Gas hydrates in coarse-grained reservoirs interpreted from velocity pull up: Mississippi Fan, Gulf of Mexico". *Geology* (2019) 47 (3): e457. <https://doi.org/10.1130/G45609C.1>
- 10) **Portnov, A.**, J. Mienert, M. Winsborrow, S. Vaddakkepuliambatta, K. Andreassen, P. Semenov, V. Gatallin (2018) "Shallow carbon storage in ancient buried thermokarst in the South Kara Sea". *Scientific Reports* 8, 14342, doi:10.1038/s41598-018-32826-z.
- 9) Hong, W., M. Torres, **A. Portnov**, M. Waage, B. Haley, A. Lepland (2018) "Variations in gas and water pulses at an Arctic seep: fluid sources and methane transport". *Geophysical Research Letters*
- 8) Arunima S., E.K.L. Åström, W. Hong, **A. Portnov**, M. Waage, P. Serov, M. L. Carroll and J. Carroll (2018) "Geophysical and geochemical controls on the megafaunal community of a high Arctic cold seep". *Biogeosciences Discussions*
- 7) Serov, P., S. Vadakkepuliambatta, J. Mienert, H. Patton, **A. Portnov**, A. Silyakova, G. Panieri, M. L. Carroll, J. Carroll, K. Andreassen and A. Hubbard (2017). "Postglacial response of Arctic Ocean gas hydrates to climatic amelioration." *Proceedings of the National Academy of Sciences* 114(24): 6215-6220.
- 6) **Portnov, A.**, S. Vadakkepuliambatta, J. Mienert and A. Hubbard (2016). "Ice-sheet-driven methane storage and release in the Arctic." *Nature Communications* 7.
- 5) Serov, P., **A. Portnov**, J. Mienert, P. Semenov and P. Ilatovskaya (2015). "Methane release from pingo-like features across the South Kara Sea shelf, an area of thawing offshore permafrost." *Journal of Geophysical Research: Earth Surface* 120(8): 1515-1529.
- 4) Rekant, P., H. A. Bauch, T. Schwenk, **A. Portnov**, E. Gusev, V. Spiess, G. Cherkashov and H. Kassens (2015). "Evolution of subsea permafrost landscapes in Arctic Siberia since the Late Pleistocene: a synoptic insight from acoustic data of the Laptev Sea." *arktos* 1(1): 11.
- 3) **Portnov, A.**, J. Mienert and P. Serov (2014). "Modeling the evolution of climate-sensitive Arctic subsea permafrost in regions of extensive gas expulsion at the West Yamal shelf." *Journal of Geophysical Research: Biogeosciences* 119(11): 2014JG002685.
- 2) **Portnov, A.**, A. J. Smith, J. Mienert, G. Cherkashov, P. Rekant, P. Semenov, P. Serov and B. Vanshtein (2013). "Offshore permafrost decay and massive seabed methane escape in water depths >20 m at the South Kara Sea shelf." *Geophysical Research Letters* 40(15): 3962-3967.
- 1) Taldenkova, E. E., S. D. Nikolaev, P. V. Rekant, I. A. Pogodina and **A. Portnov** (2009). "Some aspects of the paleogeography of the Lomonosov Ridge (Arctic Ocean) inferred from lithology and microfossils (in Russian)." *Proceedings of the MSU, Series Geography* 4: 45-54.

Articles in Peer Review

- Portnov, A.**, J. Mienert, A. Hubbard, S. Vadakkepuliambatta, H. Patton, G. Osti, (July, 2020) "Increased vulnerability of Arctic continental margins to megaslides". *Science Advances*
- Klasek, S, W. Hong, M.E. Torres, S. Ross, K. Hostetler, **A. Portnov**, F. Gründger, F. S. Colwell (September, 2020) "Methane-driven microbial community succession in Arctic seafloor gas hydrate mounds." *Nature Communications*
- Heber, R.C., A.E. Cook, **A. Portnov**, S. Vadakkepuliambatta, S. Bünz (June, 2020) "Evidence for widespread, low saturation gas hydrate in the Barents and Norwegian Seas" *Geochemistry, Geophysics, Geosystems*

Conference Abstracts

- Alexey Portnov**, Ann Cook, Matthew Frye, Stephen Palmes, Stuart Skopec (2020) Prospecting for gas hydrate using public geophysical data in the northern Gulf of Mexico AGU Fall Meeting, virtual
- Alexey Portnov**, Ann Cook, Derek Sawyer, Sunil Vadakkepulyambatta (2020) New gas hydrate prospect Moby-Dick in a dipping coarse-grained reservoir in Green Canyon, US Gulf of Mexico. AGU Fall Meeting, virtual
- Alexey Portnov**, Ann Cook, Matthew Frye, Stephen Palmes (2020) “Gulf of Mexico gas hydrate exploration using public geophysical and petrophysical datasets”. Gordon Research Conference, Galveston, USA
- Alexey Portnov**, Ann Cook, Manasij Santra, Derek Sawyer (2019) “Geological controls on a new gas hydrate system Jackalope in the northern Gulf of Mexico”. AGU Fall Meeting, San Francisco, USA
- Alexey Portnov**, Ann Cook, Urmi Majumdar, Derek Sawyer (2018) “Underexplored gas hydrate reservoirs associated with salt diapirism and turbidite deposition in the Northern Gulf of Mexico”. AGU Fall Meeting, Washington DC, USA
- Ryan Heber, Ann Cook, **Alexey Portnov**, Sunil Vadakkepulyambatta, Stefan Bünz (2018) “Gas Hydrate Occurrence and Saturation in the Barents and Norwegian Sea Using Industry Well Logs and Seismic Data”. AGU Fall Meeting, Washington DC, USA
- Scott Klasek, WeiLi Hong, **Alexey Portnov**, Marta E Torres, Frederick S Colwell (2018) “Methane-driven microbial community succession in Arctic seafloor gas hydrate mounds”. AGU Fall Meeting, Washington DC, USA
- Alexey Portnov**, Ann Cook, Derek Sawyer, Mahdi Heidari, Manasij Santra, Maria Nikolinakou (2018) “Salt-driven evolution of a gas hydrate reservoir in Green Canyon, Gulf of Mexico” Gas in Marine Sediments (GIMS), Haifa, Israel
- Ann Cook, **Portnov, A.**, Madof, A. S. (2018). “Identifying gas hydrate systems using velocity pull-ups”. Gas in Marine Sediments (GIMS), Haifa, Israel
- Alexey Portnov**, Ann Cook, Derek Sawyer, Mahdi Heidari, Manasij Santra, Maria Nikolinakou (2018). “Salt-driven evolution of gas hydrate reservoirs in the deep-sea Gulf of Mexico”. Gordon Research Conference, Galveston, USA
- Alexey Portnov**, Jürgen Mienert, Monica Winsborrow, Sunil Vadakkepulyambatta, Petr Semenov (2017). “Relict thermokarst carbon source kept stable within gas hydrate stability zone of the South Kara Sea”. AGU Fall Meeting, New Orleans, USA
- Derek Sawyer, Alan Mason, Ann Cook, **Alexey Portnov**, Jess Hillman (2017). “Hydrate-bearing Submarine Landslides in the Orca Basin, Gulf of Mexico”. AGU Fall Meeting, New Orleans, USA
- Alexey Portnov**, Maja Sojtaric (2017). “Make it fun for everyone: visualization techniques in geoscience”. AGU Fall Meeting, New Orleans, USA
- Alexey Portnov**, Malin Waage, Kate Waghorn, Pavel Serov Jürgen Mienert, Stefan Buenz, Karin Andreassen (2017). “Geophysical 3D characterization of new gas hydrate pingos offshore Svalbard”. International Conference on Gas Hydrate (ICGH), Denver, USA
- Arunima Sen, Emmelie K.L. Åström, Wei Wei-Li Hong, Pavel Serov, **Alexey Portnov**, Malin Waage, Michal L. Carroll, JoLynn Carroll (2017). “High Arctic cold seeps explored through imagery”. International Conference on Gas Hydrate (ICGH), Denver, USA
- Pavel Serov, S. Vadakkepulyambatta, J. Mienert, H. Patton, **A. Portnov**, A. Silyakova, K. Andreassen, G. Panieri, J. Carroll, M. Carroll (2017). “Environmental changes of the last glacial cycle controlling a re-emerging Arctic gas hydrate system”. International Conference on Gas Hydrate (ICGH), Denver, USA
- Matveeva, Tatiana, **Portnov A.**, Vanshtein B, Semenov P, Serov P, Vu Truong Son (2017). “Indications of gas hydrate presence within Phu Khanh, Nam Con Son, and Tu Chinh-Vung May basins in the South China Sea offshore Vietnam”. International Conference on Gas Hydrate (ICGH), Denver, USA
- Alexey Portnov**, Jürgen Mienert, Sunil Vadakkepulyambatta, Alun Hubbard, Henry Patton, Karin Andreassen, Jochen Knies (2016). “Ice-sheet-driven methane storage and release in the Arctic”. International Glaciological Society (IGS), Nordic branch meeting, Tromsø, Norway
- Jürgen Mienert, **Alexey Portnov**, Sunil Vadakkepulyambatta, Alun Hubbard, Henry Patton, Karin Andreassen, Jochen Knies (2016). “Last Ice age mediated Arctic greenhouse-gas release systems”. European Geophysical Union (EGU) conference, Vienna, Austria
- Alexey Portnov**, Sunil Vadakkepulyambatta, Jürgen Mienert, Alun Hubbard (2016). “Arctic methane storage and release across a formerly glaciated polar margin”. International Conference on Arctic Margins, Trondheim, Norway
- Alexey Portnov**, Jürgen Mienert, Pavel Serov (2015). «Climate-sensitive subsea permafrost and related gas expulsions on the South Kara Sea shelf. Field studies and modeling results». European Geophysical Union (EGU) conference, Vienna, Austria
- Alexey Portnov**, Jürgen Mienert, Pavel Serov (2014). «Modeled evolution of subsea permafrost associated with extensive gas escape offshore the West Yamal shelf». Minerals of The Ocean-7, Saint-Petersburg, Russia

- Alexey Portnov**, Jürgen Mienert, Georgy Cherkashov (2013). “Offshore permafrost decay and massive seabed methane escape in water depths >20 m at the South Kara Sea shelf”. AGU Fall Meeting, San Francisco, USA
- Alexey Portnov**, P. Semyenov, J. Mienert (2013). “Fluid flow dynamics in association with subsea permafrost and possible gas hydrates at the Kara Sea”. 3P Arctic, Stavanger, Norway
- Alexey Portnov**, P. Rekant, P. Semyenov, J. Mienert (2013). “New HRS data indicating interaction of gas migration processes and subsea permafrost at West Yamal shelf (Kara Sea)”. PERGAMON workshop, Helsinki, Finland
- Alexey Portnov**, P. Rekant, P. Semyenov, (2012). “Subsea permafrost, gas seeps and gas hydrates in the Arctic: available data and perspective projects”. Minerals of The Ocean-6, Saint-Petersburg, Russia
- Alexey Portnov**, P. Rekant, E. Gusev, G. Cherkashov (2008). “Submarine permafrost in connection with the occurrence of gas saturated sediments within the upper part of the sedimentary cover of Laptev Sea”. Arctic Ocean Drilling Workshop, Bremerhaven, Germany
- Alexey Portnov**, P. Rekant, B. Vanstein (2006). “Acoustic geochemical evidence of subsurface gas occurrence off Kola Peninsula (Barents Sea)”. 16th conference of the TTR Program on Geo-Marine Research along European Continental Margin, Bremen, Germany