

ISSUE

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QUARTERLY NEWS

CCAPPTIA^{OF}

The Forum



CCAPPTIA gets Website

The Climate Change Adaptation Planning for Ports, Transportation Infrastructure and the Arctic (CCAPPTIA) has officially launched its website. The website contains key information about members, opportunities and latest news from the forum. Kindly see [www. ccapptia.com](http://www.ccapptia.com) for details.

The launching has also been announced on the Port Economics Website, refer to <http://www.porteconomics.eu/2019/08/26/international-consortium-on-climate-change-adaptation-and-arctic-shipping-ccapptia/>.

CCAPPTIA is the first of its kind and hope to expand to engulf not just the Arctic but also other polar regions like the Antarctic region.

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CCAPPTIA LAUNCHES OFFICIAL WEBSITE

CCAPPTIA a multidisciplinary consortium focused on Climate Change and its effect has been launched. The state-of-the-art platform is designed to be an avenue for international scholars, rights holders, governments and other professionals to collaborate on projects and offer consulting services to address the implications of climate change.

CCAPPTIA currently has over 40 members spreading across all the continents in the world with varying expertise. It is a big step towards establishing a world class consortium on addressing the issues related to climate change and the Arctic. Climate change is seen as a double-edged sword. On the one hand, it causes floods, extreme weather temperatures etc.; on the other hand, the increased temperature means that places like the Arctic are likely to see an increase rate of ice melt. This is an opportunity for shipping and mineral exploration. Already countries like Russia have positioned itself strategically to benefit from this side of climate change, notably shipping through the Northern Sea Route.

Greenland has become an important country as a source of minerals. Further countries like the United States have also made Arctic a key frontier for both economic and defense reasons. It is therefore not surprising that recently the United States floated the idea of purchasing Greenland.

On the other hand, the Arctic is also strategic for cultural purposes. The lives of the right holders are very much intertwined with the Arctic and so any form of development needs careful planning. The establishment of CCAPPTIA is therefore a welcome news as it will provide updates and the progress of research in this regard. Also, members of CCAPPTIA are among the most influential in this field and so stand to collaborate on this front to help reduce the consequences that come with such a development. The website will also serve as a medium on collaborating on grants to address the problem at hand.

All are encouraged to visit the website and contribute to its enrichment (www.ccapptia.com).

The Amundsen field trip

Dr. Mawuli Afenyo a founding member of CCAPPTIA was part of the just ended research expedition on board the Amundsen, the flagship Canadian research ship through the North West Passage. This year's expedition saw the Amundsen reaching the most north part of the Arctic. The expedition afforded Dr. Mawuli the opportunity to interact firsthand with the crew of the Arctic going ship. On their part the crew shared their experience and insight on navigation, impact of climate change and how to adapt and develop resilient systems. These inputs are key to a study been conducted by CCAPPTIA as part of the GENICE project (see: www.genice.ca) and the Climate Change Adaptation project; SSHRC sponsored project.



THE AMUDSEN RESEARCH EXPEDITION

A Journey to the Northernmost part of the Canadian Arctic

The 2019 research expedition to the Arctic by Canada has ended successfully with scientist and professionals from different background participating. These included students, engineers, microbiologists, geologists, geophysist among others.

The expedition which was organised by Amundsen Science was on board the Canadian ice-breaking research ship *Amundsen*. The students on board took part in different activities including mapping, tucker nets, mosnter nets and in some cases interviewing the crew.

For some of the people on board, it was their first time in the Arctic. Many said they have read and heard so many happenings in the Arctic but have not had the opportunity to witness this first hand espially with regards to the impact of climate change. During an interview with some of the crew members who were on board an ice breaker last year at the same time through same places through the Arctic attested to the fact that last year by this time, there was lots of ice in same place compared to this year.

Some of the crew members were also believe that there is a need to increase the presence of Canadian Coast Guard presence in the Arctic and update the maps as well. If Canada is to become an Arctic powerhouse, it would need to invest more in infrastructure in this area.

“This year’s expedition was a huge success. For the first time the Amundsen travelled to the northernmost part of the North West Passage “

While it is true that the area is sparsely populated, it contains some of the world’s most special species and the increase in commercial shipping and mineral exploration may change this composition. This expedition and the many more to come will improve Canada’s understanding of the region and help develop technologies for navigating this rather difficult terrain. On the part of the students, the expedition was well planned and prepared for. The newly refurbished ship has some of the state-of-the art labs for science. It has all you need to conduct field work at different times of the day in different weather conditions.

For CCAPPTIA member, Dr. Mawuli Afenyo, it was also an opportunity to speak to the crew on their experience of navigating through Arctic waters. This insight is valuable towards developing risk-based decision-making tool for oil spills in the Arctic which is part of the GENICE project. Further, other research related to climate change adaptation and resilience (A&R) was explored. For example, he wanted to find out if A&R measures were available and how these are been implemented. This will also go into developing a risk-based tool for A&R.

All in all it was a very successful expedition for all three legs of the voyage. CCAPPTIA in the coming months will publish these models that are been developed. They are very critical for insurance of ships in the Arctic as well as assessing the socio-economic impact of oil spill in this region. Further the A &R related models will be useful for guiding managers and governments in incorporating A & R in their operation.



THE 2ND CCAPPTIA CONFERENCE TO BE HELD IN WINNEPEG, CANADA, MAY 2020

Following the success of the first workshop held in Winnipeg in 2018 (www.ccapptia.com/conferences),

the 2nd CCAPPTIA workshop will bring leading experts from academia, government, industry, and interest groups to consolidate and coordinate global research and development activities on the current decision-making process in climate adaptation planning, assessing strategy and policy implementation under the context of climate adaptation planning among others.

The workshop would take place between May 7-8, 2020 at the University of Manitoba.

Further, the conference would seek to facilitate collaboration between personnel managing ports and other transport infrastructures, including those in the Arctic, in climate adaptation planning.

For example, what are some of the measures been put in place by governments and shipping related companies to address the impact of climate change on their business model.

These and many other issues will be the subject of discussion for the upcoming conference.

Further, in open water different types of accidents have been recorded and include grounding, fire and explosion, sinking, collision among others. Some of these have resulted in consequences notably oil spills.

The oil spills have affected the livelihoods of the affected communities. Should similar events occur in the Arctic, the rights holders in these areas would be affected gravely. Recent events around the world has shown that if much attention is not given to the transportation of goods and services through the Arctic, we are likely to run into crisis.

HOT ISSUES ON CLIMATE CHANGE

Trending news

- Canada launches its Arctic policy.
- President Donald Trump floats the idea of buying Greenland.
- The Amazonia forest is still burning putting the area covering 5.5 Million Square Km at risk and hence the flora and fauna therein.
- The ice in Alaska has melted this year at higher rate never seen before.
- Norway and Russia renew age old controversy over the sovereignty of the NSR.

THIS EDITION'S THINGS TO REMEMBER

Six facts about Greenland

- **The population of Greenland is approximately 57,000.**
- **The Capital of Greenland is Nuuk.**
- **In 1946, USA wanted to buy Greenland for USD 100 Million, a similar attempt has been made in 2019 but for how much?**
- **Greenland is a semi-autonomous region under the Danish crown.**
- **China is the largest outside investor in Greenland.**
- **More Chinese delegations have visited Greenland than delegations from the US.**



CCAPPTIA NEWS (JUL-SEP 2019)

CCAPPTIA Member appointed to Research Manitoba's Advisory Board

Adolf K.Y. Ng has been appointed as a member of Research Manitoba's Research Advisory Committee (RAC). In this capacity, he will participate in providing and making recommendations to the Board of Directors on all research-related matters, including administration of existing programs and opportunities, development of new programs, and research initiatives. Research Manitoba is a provincial funding agency in Manitoba, Canada, which provides funds for research in the health, natural and social sciences, engineering and the humanities in Manitoba through a number of grants and awards programs from moneys received from the Province.

CCAPPTIA partners with Port Economics

CCAPPTIA has partnered with PortEconomics (porteconomics.eu). PortEconomics aims to generate knowledge about ports. It is developed and empowered by the members of the PortEconomics group that are actively involved in academic and contract research in port economics, management, and policy, including Adolf K.Y. Ng, Thanos Pallis, Jason Monios, and Gordon Wilmsmeier. We are looking forward to develop a successful collaborative relationship with Port Economics in promoting knowledge related to sustainable port studies.

CCAPPTIA Members help Climate Bonds Initiatives to Develop Adaptation & Resilience Guidelines for Shipping

CCAPPTIA is invited by Climate Bonds Initiatives (CBI) to develop Adaptation & Resilience (A&R) guidelines for shipping. The A&R guidelines will be used by CBI to give certification to ship investors who wish to issue bonds for raising funds to build ships that are resilient to the impacts of climate change. This illustrates that CCAPPTIA's research in climate A&R is highly appreciated by practitioners. Climate Bonds Initiative is an international organization working solely to mobilize the largest capital market of all, the \$100 trillion bond market, for climate change solutions (www.climatebonds.net).

CCAPPTIA Members Publishes Book on Global Supply Chain Management

Adolf K.Y. Ng and Yui-yip Lau have published a book entitled Global Supply Chain Management (co-authored with J. Acevedo Alarid) which offers a comprehensive insight into the strategic, operational, and financial aspects of global supply chains. Two chapters (7 and 8) specifically discuss climate change in a global environment and sustainability in infrastructure-based supply chains. The book is part of the Anthem Studies in Supply Chain Management, Maritime Transport, and Logistics series.

CCAPPTIA MEMBER PART OF THE AMUNDSEN EXPEDITION TO STUDY THE EFFECTS OF OIL SPILLS AND CLIMATE CHANGE

CCAPPTIA Founding Member, Dr. Mawuli Afenyo, was part of the research expedition onboard the Amundsen, the flagship Canadian research ship through the Northwest Passage. This year's expedition saw the Amundsen reaching the most northerly part of the Arctic. The expedition afforded Dr. Mawuli the opportunity to conduct both a qualitative and quantitative study to address oil spills and climate change-related problems. Interacting firsthand with the crew of the Arctic-going ship and some rights holders were key to these studies. On their part, the crew shared their experience and insight on navigation in such a difficult terrain, impact on climate change and how to adapt and develop resilient systems.



www.ccapptia.com

Contact ccapptia@gmail.com for collaborations and projects

Founders Adolf Ng, Mawuli Afenyo, Roozbeh Panahi, Yufeng Lin, Yui Yip Lau, Jason Monios, & Changmin Jiang are glad to partner with you on dealing with issues of climate change for the good of humanity.