



THE VAN HORNE INSTITUTE

# ISOPOLAR



## Airships VI: A Game-Changer

December 5-6, 2011

Edgewater Hotel, Seattle, Washington

[www.airshipstotheartic.com](http://www.airshipstotheartic.com)

### PURPOSE

Lighter-than-air transport is ready to take its place in the world of logistics. Two large airships are scheduled for delivery to the US armed forces in December 2011. Civilian versions of these military aircraft are expected to follow that can lift 10 to 50 tons and operate with minimal ground support. This conference will examine how cargo airships will be a game changer for transportation. Shippers and suppliers will come together to assess the supply and demand potential for the use of airships in frontier logistics, including Alaska and Northern Canada.

### WHO WILL ATTEND

- Companies in mining, oil and gas exploration, pipelines and northern/frontier logistics attend because they need lower freight costs and the access to remote areas that airships can provide
- Airship manufacturers attend to meet potential users and refine their designs to fit their needs
- Input suppliers are present to support manufacturers and assess their market opportunities
- Military and governments attend due to their interest in economic development, security and transportation policy
- Academics, consultants, environmentalists, aboriginals and the media attend to broaden their knowledge

### BENEFITS OF ATTENDING

- Meet representatives from over ten airship development companies, delegates from a dozen countries, government delegates from Alaska, Yukon and the Northwest Territories, and the federal governments of Canada and the U.S.
- Hear directly from executives about the resource industries and the reality of their logistical challenges
- Get your questions answered by the experts of the airship industry

### QUESTIONS?

Contact Gary Wylie, ISO Polar, at [gwyllie@isopolar.ca](mailto:gwyllie@isopolar.ca) or Bryndis Whitson, Van Horne Institute, at [bwhitson@ucalgary.ca](mailto:bwhitson@ucalgary.ca)

**Conference Dedication: Modern Founders – George Spyrou and Roger Munk**

**Monday, December 5**

7:45 am Breakfast

Opening Remarks

Welcome Conference Chair: Dr. Barry Prentice

Sponsored by:



**LOCKHEED MARTIN**



8:00 am **Alaskan Needs for a Game Changer**

*Chair: **Oliver Hedgepeth, Ph.D.** Program Director, Reverse Logistics Management American Public University System*

**Dr. Paul Metz**, University of Alaska, "Logistics of Mineral Exploration in Alaska"

**Hardy Giesler**, Business Development Director, Hybrid Air Vehicles, UK

**Brian Hall**, President, Airship Ventures "Operators' Perspective on Transport Airships"

10:00 am Networking Break

10:30 am **Game Changers: Buoyancy Control**

*Chair: **Stuart Russell**, VP Business Development, BBE*

**Alan Handley**, President, Varialift Airships PLC, UK *Varialift: A New Horizon*

**Gennady Verba**, President, RosAeroSystems, Russia

**Michael Talesnikov** VP Marketing & Sales, Augur Aeronautical Centre

12:00 pm **Lunch Keynote Speaker**

**Matt Morrison**, Executive Director, PNWER "Northern Transportation Gaps"

1:30 pm **Game Changers: Cargo Airships**

*Chair: **Ian Glenn**, MSEE, P.Eng., Chairman and CEO, ING Engineering Inc*

**Dr. Robert Boyd**, Hybrid Lift Portfolio Manager, Lockheed Martin Aeronautics Advanced Development Programs (or Skunk Works)

2:30 pm Networking Break

3:00 pm **Economic applications for Buoyant Air Transport**

*Chair: **Ruth Sol**, President, WESTAC*

**Alena Wychreschuk**, Msc. Student, University of Manitoba "Cost: Benefit Analysis of UAV Logging Airships in the Boreal Forest"

**Helen Kourous-Harrigan**, Michigan Tech Research Institute, Ann Arbor Michigan "Mineral occurrence revenue estimation and visualization (MOREV) tool and its application in a Northern Transportation Environment with Airships."

5:00 pm Buses to Museum of Flight

7:30 pm **Banquet - Museum of Flight**

**Conference Dedication to Modern Airship Founders: George Spyrou and Roger Munk**

**Keynote Speakers:**

**Arnold Nayler and Ron Hochstetler, SAIC/NASA (invited)**

**Tuesday December 6**

7:45 am Breakfast  
Opening Remarks – Welcome

8:00 am **Hangars and Envelopes**

*Chair: Peter Wallis, President and CEO, Van Horne Institute*

**David Roberts**, Big Top Shelters “Innovation Hangar Construction” (invited)

**Tim Miller**, ILC LTA Principal Engineer “Manufacturing Considerations of Large Lighter Than Air Softgoods Structures”

10:00 am Networking Break

Sponsored by:



HYBRID AIR VEHICLES



10:30 am **Weather and piloting**

*Chair: Peter Wallis, President and CEO, Van Horne Institute*

**Ananthakrishna Sarma**, Senior Scientist, SAIC, “Airships and Weather”

**Brian Metzler**, Airship Pilot

**Richard Van Treuren**, Author, “Airship Safety in Northern Weather Conditions”

12:00 pm **Lunch Keynote Speaker**

**Dale George**, Chief Technology Officer, BASI, “Airship Design Considerations”

1:30 pm **Game Changer in Cargo Airship Design**

*Chair: Ruth Sol, President, WESTAC*

**Konstantin Kolpakov**, Project Manager and **Vladimir Ivanov**, Chief Engineer, AIRSHIP GP, “All-weather airship based on the new propulsor.” Russia

**Brandon Buerge**, PhD, Aerodynamicist, MAV6, “Big Traditional Airship for the North”

2:30 pm Networking Break

3:00 pm **What would Airships mean to the North?**

*Chair: Dr. Barry Prentice, President, ISO Polar*

**Dr. Alan Weston**, Director of Programs and Projects, NASA Ames Research Center (invited)

# Registration

**To pay by credit card:** Please go to <http://www.airshipstohearctic.com/registration.html>

**To pay by cheque:** Please fill out the form below, scan, and email to [gwylie@isopolar.ca](mailto:gwylie@isopolar.ca) and send cheque payable to IsoPolar Airships Inc., 91 Purdue Bay, Winnipeg, Manitoba Canada R3T 3C6. Payment must accompany registration.

**To make hotel reservations:** Please go to [https://resweb.passkey.com/Resweb.do?mode=welcome\\_ei\\_new&eventID=3407562](https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=3407562)

Item	Regular Rate (after Nov 7)	Total
<input type="checkbox"/> Full conference registration for ISO Polar Members	\$595 CDN	\$____CDN
<input type="checkbox"/> Full conference registration for Van Horne Institute Members	\$595 CDN	\$____CDN
<input type="checkbox"/> Full conference registration for Non-Members	\$645 CDN	\$____CDN
<input type="checkbox"/> Full conference registration for Students	\$200 CDN	\$____CDN
<input type="checkbox"/> Spouse ticket (Banquet dinner)	\$75 CDN	\$____CDN
<input type="checkbox"/> Spouse ticket for all meals (2 Breakfasts, 2 Lunches, and 1 Banquet dinner)	\$175 CDN	\$____CDN

TOTAL \$\_\_\_\_\_

## Delegate Information

Name: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Email: \_\_\_\_\_

## Billing Information

Billing Contact Name & Title: \_\_\_\_\_  
(If different from delegate)  
Billing Address: \_\_\_\_\_

**CANCELLATION & REFUND POLICY:** In order to offer conferences at attractive rates, the following is applied: Cancellations must be received by email ([gwylie@isopolar.ca](mailto:gwylie@isopolar.ca)) by October 3, 2011 will be charged 75% of fee. Cancellations after October 3, 2011 will be charged 85% of fee, and after November 14 2011, no refunds are granted. You must notify us by email by the end of December 1, 2011 if you wish to send a substitute participant. Delegates may not "share" a pass between multiple attendees.

**REGISTRATION QUESTIONS?** Contact Gary Wylie at 204-414-4060 or [gwylie@isopolar.ca](mailto:gwylie@isopolar.ca)