The Atmospheric Vortex Engine Concept

Donald Cooper

Joint Technical Session presented by Mechanical Branch Engineers Australia WA, The Institution of Mechanical Engineers and American Society of Mechanical Engineers

EVENT DETAILS

Date:
Wednesday, 22 April 2009

Time:
5.30 pm for a 6.00 pm start

Venue:
Auditorium
Engineers Australia
712 Murray Street
West Perth

Cost:
Free

RSVP:
Not required

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SETTING THE STANDARD

There is a strong technical argument that a significant reduction in the global greenhouse effect may be achieved by means of a relatively simple system that has been labelled the Atmospheric Vortex Engine.

This proposed system makes use of an induced vortex to harness enthalpy contained within the atmosphere. The enthalpy is principally in the form of the latent heat of water vapour. Other energy such as industrial waste heat or geothermal energy is used to provide the energy to activate the vortex and thus effectively a form of Carnot engine.

By-products of the proposed system include:

- Conveying water vapour toward the top of the troposphere where heat can be radiated to space
- Enhanced rainfall adjacent to the Vortex Engine
- Significant “scrubbing” of pollutants from the surrounding atmosphere
- Breaking up of inversion layers that occur due to nighttime cooling of the Earth's surface.

At first glance, it appears as if the Vortex Engine proponents are claiming to be “getting something for nothing.” On the contrary, there is a demonstrably vast amount of renewable energy within the atmosphere that can be tapped by the Vortex Engine!

About the Speaker:

Donald Cooper graduated in mechanical engineering from Curtin University of Technology in 1971. He has a background within both academia and industrial practice. Within the former role, he was Study Area Leader in mechanical engineering within the Western Australian Department of Training from 1991 to 1995, and from 1996 to 1999 Principal Lecturer (Engineering) at Challenger College of TAFE. In 1997, while working within TAFE, he completed a degree of Master of Engineering studies at the University of Western Australia, which included a dissertation involving the computer modeling of gyroscopic dynamics and its application in regenerative braking systems.

In industry, he has worked primarily as a mechanical design engineer, principally in alumina refining and iron & steel; with experience in water treatment and nickel, gold and copper refining. Over several years, he has extensively liaised with engineer and inventor Louis Michaud with regard to possible applications of his atmospheric vortex engine (AVE) in power generation.

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