

The

# Harry Otten Prize

for Innovation in Meteorology

Richard Anthes  
(on behalf of the Harry  
Otten Foundation Board)



# Innovation

## Definition:

Something newly introduced,  
such as a new method or device



# Current Guidance and Examples

<http://www.harry-otten-prize.org/participation/guidance.html>

The prize will recognize ideas that will enable a clearly innovative contribution of meteorology to society.

# Additional Guidance and Examples

Innovation means new ideas, ideas that have not been developed by the proposers or by others.

We encourage new ideas rather than ideas that are already well developed, implemented, or published.

Relatively small improvements to existing ideas and/or products are not encouraged.

# Additional Guidance and Examples

Ideas could be new methods or devices that are part of larger applications, but they must be clearly identified and described. The ideas should be sufficiently different from other similar applications that the Board can understand what is innovative about the idea.

It is the responsibility of the proposer to be aware, to the extent possible, of other similar ideas, in order to make a good case for the innovative aspects of his or her idea.



# Teams of Proposers

Teams of up to three members are allowed to propose.

However, it is not acceptable for teams larger than three to participate by selecting three or fewer people to represent the larger team in making the proposal.



# Confidentiality

All proposals will be kept strictly confidential. However, prize winning proposals will be announced subject to approval of winners and will be made public at the time of the award.

All proposals and ideas remain the intellectual property of the proposer(s). The Harry Otten Foundation Board will not disclose or use the ideas in any way.

# Categories that could include ideas

- NWP modeling, data assimilation, etc.
- Education (e.g. distance learning via the web such as COMET)
- Forecasting techniques (e.g. ensemble forecasts)
- Communication of weather information, including broadcasting (e.g. comfort index, in-cockpit weather)



# Categories that could include ideas

- Instruments (some example follow)
- Air quality/air pollution (e.g. chemical weather models)
- Wind energy generation (e.g. Precise hourly forecasts using combined models and observations)
- Climate adaptation (e.g. painting roofs white in hot climates, roof gardens)



# Ideas that Might Have Won

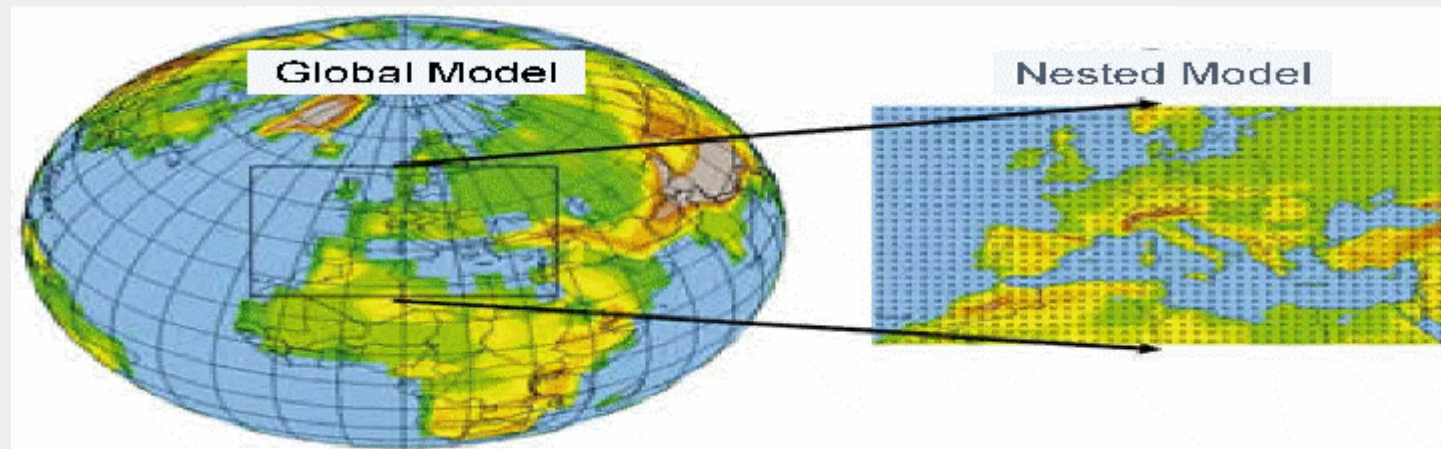
- Precipitation type radars
  - Detecting precipitation type as well as intensity





# Ideas that Might Have Won

- Downscaling of numerical model forecasts to specific point locations





# Ideas that Might Have Won

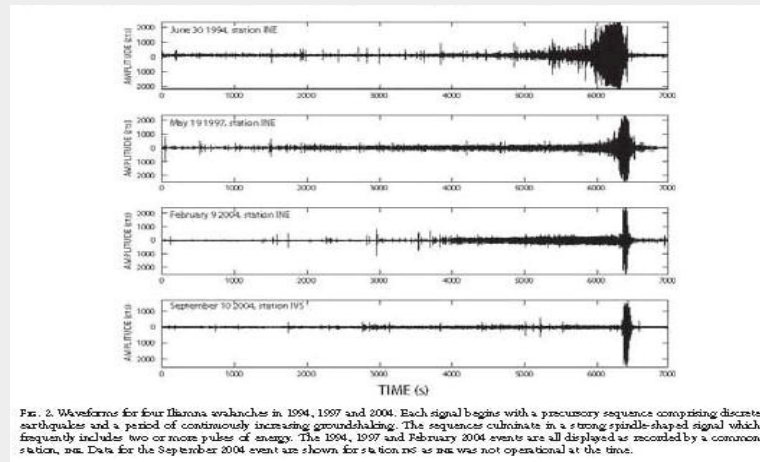
- In car weather sensors





# Ideas that Might Have Won

- Use of seismic activity to detect avalanches



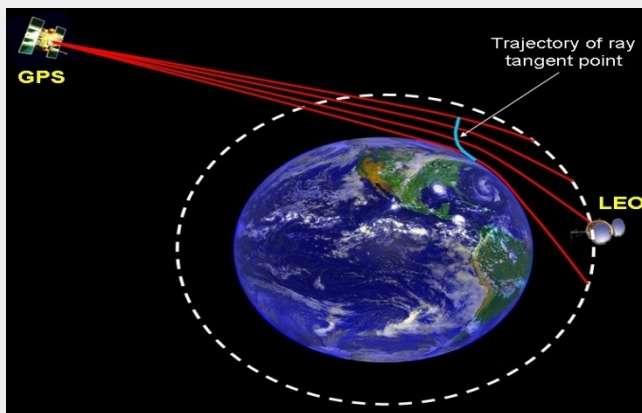




# Ideas that Might Have Won

- Use of GPS signals to observe meteorological variables

Radio occultation and ground-based GPS observations



# Ideas that Might Have Won

- World Cup of Weather Forecasting
  - An international contest that is played by experts and the public alike





# Ideas that Might Have Won

- Timeless weather and climate information
  - Weather and climate information on any time scale, from minutes to hundreds of years







# Ideas that Might Have Won

- GPS dropsonde
  - A more accurate dropsonde based on GPS tracking



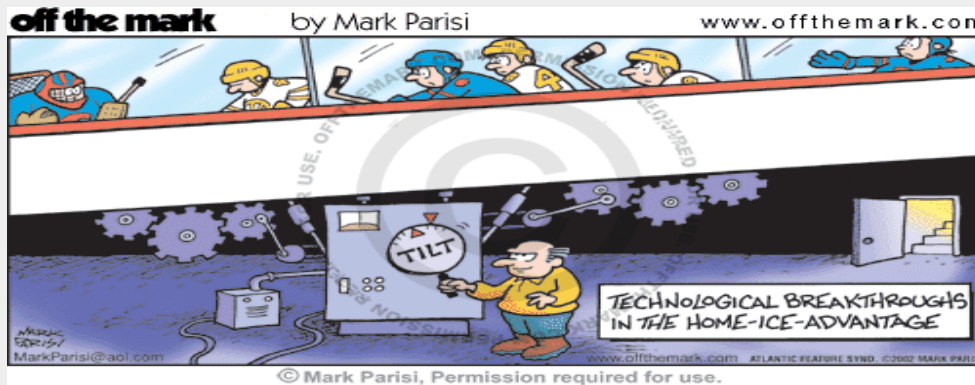
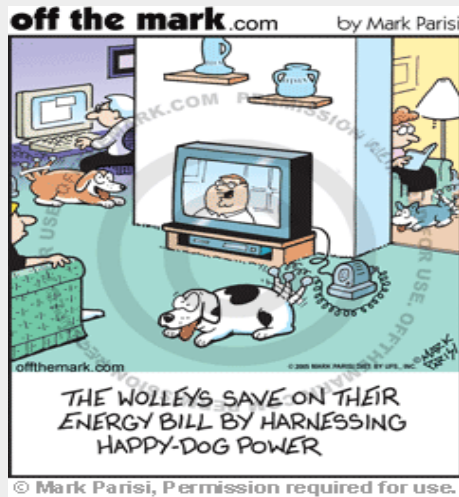


# Ideas that Might Have Won

- Water vapor sensing system for commercial aircraft



# Ideas that Might Not Win





# We encourage your ideas!

- Think about fresh new ideas
- Be creative
- Brainstorm
- Think out of the box
- Dream
- Research your idea on the web to verify that it is new

# 2013 Schedule

- 10 March—Closing date for Pre-proposals
- Mid-April-First round decisions made; full proposal with questions requested to successful proposers
- End of May-Closing date for full proposal and response to questions
- End of June-Selection of finalists
- September-Presentations of finalists at EMS meeting in Reading, U.K.



ASANTE Arigato Ngiyabonga  
Spasibo Gracias  
Mahalo Merci Xie Xie  
Thank You  
Paldies Grazie Dziekuje  
EFHARISTO Toda Abarke  
Danke Tack OBRIGADO