



THE DREAM

“Le Reve”

Refaat Rashad

The 22nd PNT Advisory Board Meeting

Dec.5,6 2018

- Crowne Plaza Redondo Beach, California

International Conference & Exhibition GNSS

THE KEY TO INNOVATION

1-3 Oct. 2018

Concorde El Salam Hotel, Cairo



تحت رعاية

أ.د/ إسماعيل عبد الغفار إس

DE
RTS
Hotel Cairo

AIN



James J. Miller

- Executive Director of the National Space-Based PNT Advisory Board,



Dr. Lisa Mazzuca

Dr. Lisa Mazzuca is the NASA Search and Rescue mission manager.



AIN Conference 1012





Nicho Award



**Prof. Bradford Parkinson
Stanford University**



GNSS Interoperability Melaha Conference May 3-5, 2010 Cairo, Egypt

Raymond Clore

Senior Advisor for GNSS Issues
Office of Space and Advanced Technology
U.S. Department of State

U.S. Presentation from Melaha 2008

April 13, 2008,

Michel Shaw

NCO Director

International Conference organized by the **Arab Institute of Navigation**

Hurghada, Egypt.

Assured Availability of PNT

- *Three Action Areas:*
- Protect the Clear and Truthful Signal
- Toughen User's Receivers
- Augment or substitute PNT sources

- I believe that the message has spread over and over nationally and internationally

**What
is the
Problem??**

- Society as a whole is facing numerous global threats, including climate change, a looming energy crisis, population growth, potential food shortages, increase the risk of insecurity and intensity of natural and man-made disasters.

A DREAM

“Reve”

“حلم”



Clouds of PNT

Space

Ground Stations

Carry On Devices INS

GNSS

SBAS

e Loran

GBAS SL

Challenges on

- How PNT can provide civil protection and humanitarian aid, and monitoring of atmospheric composition.
- How can PNT Support the selection of renewable energy production sites, monitoring of critical assets like nuclear plants, or protection of vital infrastructure like power plants or pipelines;

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Challenges on

- • How can we use PNT for the best manage of our consumption and utilization of Earth's natural resources and protect the environment
- • How PNT guarantee the safety, security and quality of life of future generations and respond effectively to disasters and crises?

Challenges on

- How PNT enables an improved understanding of Food security assessment; support to sustainable agricultural practices .
- How policy makers, researchers, commercial , private users, as well as the scientific community and civilians can benefit from the information provided by the different PNT applications .

Challenges on

- How PNT is used to monitor the marine environment and shipping routes to enhance knowledge, control of maritime traffic for safety and thus support the sustainable development of the marine economy .
 - How PNT is Important to the Future Commercial Space era and the autonomous Vehicles.

Challenges on

- How PNT can Innovate Services and provide high resolution maps in support of urban planning to assure balanced development of Smart Cities and contribute to the protection of natural and cultural heritage?

- Humanity
 - Safety
 - Security
- Economy



PTA & IDM

A satellite with gold and purple panels is shown in space, with the Earth visible on the right side of the frame. The background is a dark starry sky.

Thank you

A landscape featuring the Great Pyramids of Giza at sunset. The sky is a mix of orange, yellow, and red, with the pyramids silhouetted against the horizon.

*My land and mother of all lands
My passion and love in the hearts
My home my root my love & my soul
Closest my heart you Live & that's where you'll always be*

Egypt