

# EMINENT SPEAKER SERIES 2011-2012

Hosted by: The Joint Board for Aerospace Engineering, Engineers Australia and the Royal Aeronautical Society, Australian Division (RAES).

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For more information or to register to attend online, please see the below link:

<http://www.engineersaustralia.org.au/eminentspeaker/>

(Please note there is a \$10.00 for non members of Engineers Australia or the Royal Aeronautical Society to attend this presentation)



### Next Generation Air Traffic Management – Promises, Pitfalls and Progress

Both the U.S. and Europe are engaged in active, long-term programs to modernize Air Traffic Management (ATM). These programs promise a continuous roll-out of new procedures and technology that will save fuel, reduce noise, cut pollution, and maintain or improve safety.

The United States has invested nearly \$3 billion in its ATM modernization program, called NextGen. NextGen is projected to reduce delays about 35 percent in the next seven years. It will bring \$23 billion in cumulative benefits, saving about 1.4 billion gallons of jet fuel and cutting carbon dioxide emissions by 14 million tons.

This presentation will describe the technologies that enable and underpin NextGen, as well as the technical challenges involved in integrating these technologies. However, good engineering alone is not enough to achieve NextGen goals. Since ATM systems must operate 24/7/365, how to transition to new operations and procedures using the new technologies is also key; major transition considerations will be described. Cultural factors in the engineering, pilot and controller workforces must also be addressed; these factors will be described, as well as the approaches which are trying to address them.

The presentation will close with selected examples of progress from a U.S. and global perspective.

### Presentation Details

#### Brisbane

Thursday 8<sup>th</sup> March

#### Newcastle

Monday 12<sup>th</sup> March

#### Sydney

Tuesday 13<sup>th</sup> March

#### Canberra

Wednesday 14<sup>th</sup> March

#### Melbourne

Thursday 15<sup>th</sup> March

#### Adelaide

Friday 16<sup>th</sup> March

#### Perth

Monday 19<sup>th</sup> March

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