



**Aerospace and Electronics Systems / Technology Management Chapter of the IEEE NJ Coast Section  
School of Science, Software Engineering, Monmouth University  
Federal Aviation Administration (FAA)**

**Challenging Response To:  
"Safe and Efficient Air Travel for the Next Generation"**

*Presented by*  
**Stanley Pszczolkowski**  
FAA William J. Hughes Technical Center Senior Manager

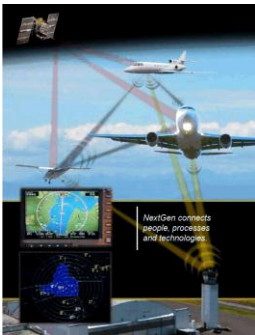
May 19, 2010 at 6:00 PM  
(Orientation Opportunities Program at 4:00 PM for High School Students, Parents and University Graduates)

The Pollak Theater, Monmouth University  
400 Cedar Ave, West Long Branch, NJ 07764  
Directions to Campus: <http://www.njmta.com/map-pollack.php>

Presentation for Professionals, Technical, Military, Students, Professors and the Public at no cost - Coffee Service available

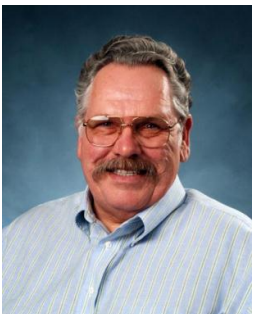
**Register at:** <http://ewh.ieee.org/r1/njcoast/register.htm>

**Abstract**



The Federal Aviation Administration is the largest and safest provider of air navigation services in the world – the United States’ National Airspace System (NAS). In order to meet the challenges of tomorrow the FAA has charted a course for NAS improvement well into the future – it is the Next Generation Air Transportation System (NextGen). It will include reliance on satellite technology, the integrated use of ground automation with cockpit technology, improved procedures, the continued close relationships with system users and cooperative decision making between all involved – pilots, controllers, airline operations centers and the military. NextGen will improve system capacity, mitigate environmental impacts and, most of all, maintain and enhance the current enviable record of safety in the NAS. I will describe how we will upgrade the Air Traffic Control System and other needed improvements to meet the challenge, complemented with videos and slides.

**About the Speaker**



Stan Pszczolkowski is the manager of the Air Transportation System Evaluation Group at the FAA Technical Center. Projects include aircraft separation standards statistical analyses, advanced communications projects, math modeling of navigation aids signal-in-space and terminal instrument procedure data collection. Since joining the FAA in 1972, he has had responsibility for significant aspects of the development of air traffic control automation capabilities, controller decision support tools, the use of GPS in civil navigation and communications systems. He has a B.S. in mathematics from Seton Hall University and an M.S. in mathematics from Purdue University. He is a member of the IEEE and serves on the City of Ocean City Ethics Board, the Atlantic Cape May Workforce Investment Board and the Advisory Board of the Atlantic County Institute of Technology. Stan is also a member of the Planning Advisory Board of Aerospace Control and Guidance Systems Committee. This committee is affiliated with both the IEEE and the Society of Automotive Engineers.

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