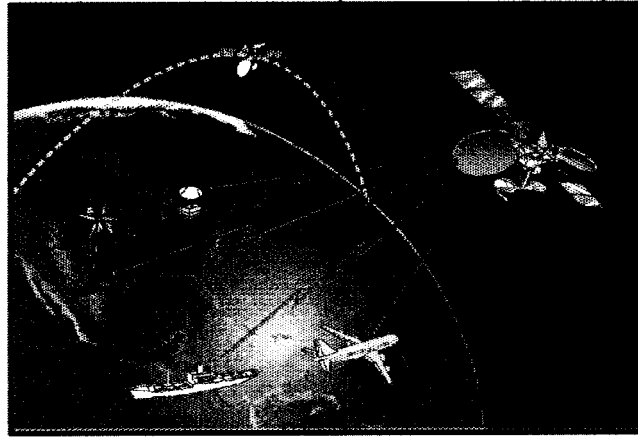


# Satellite Networks: Architectures, Applications, and Technologies



**A Workshop Sponsored by NASA Lewis Research Center**

**June 2-4, 1998**

**Location: Sheraton Airport Hotel**

**(Near the Airport and NASA LeRC, easy access to downtown)**

**Cleveland, Ohio**

Global satellite networks are moving to the forefront in enhancing the national and global information infrastructures due to communication satellites' unique networking characteristics. Simultaneously, the broadband data services are emerging as the major market driver for future satellite and terrestrial networks. The convergence of satellite and terrestrial networks is widely acknowledged as the foundation for an efficient global information infrastructure. In the past two years, around the globe various task forces and working groups have identified pivotal topics and key issues to be addressed for the realization of such networks in a timely fashion. In response, efforts have been undertaken by industry, government, and academia in addressing these topics and issues. There is a need to assess the progress made to date and chart the future.

This workshop will provide the forum to assess the current state-of-the-art, identify key issues, and highlight the emerging trends in the next generation architectures, data protocol development, communication interoperability, and applications. Presentations on overview, state-of-the-art in research, development, deployment and applications and future trends on following topics are solicited as related to satellite networks.

Next Generation Space-based Network Architectures  
Internet and Intranets  
Web-Based and Multimedia Applications  
Emerging Broadband Applications  
Aeronautical Applications and Architectures

NASA Applications of Satellite Communication Networks  
ATM - Quality of Service, Traffic Management, PNNI  
Access Techniques (e.g. ALOHA, TDMA, etc.)  
Advanced Protocol Design and Experimentation (TCP/IP)  
Reliable and Real-Time Multicasting  
Interoperability: Space-to-space, Space-to-ground (wireless and wired) and Space-to ground (wireless and wired)  
Mobility Issues  
Standard Issues and Development  
Security and Electronic Commerce  
Hybrid Video/Data/Voice Format Networks  
Enabling Space and Ground System Technologies  
Network Management  
Network Modeling, Simulation and Performance Evaluation

## Call for Presenters

If interested, please submit an abstract, title, author, and mailing address by email, fax or mail by March 30<sup>th</sup> (Proceeding will only consist of brief presentation material) to:

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