

2006



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WORKSHOP 2006**

# Announcement & Call for Papers

## Scope

The demand for communications satellites, which has been stable in the last few years, may be headed for an upswing not only because of orders for replacements of the aging satellites built in the nineties, but also because of the demand generated by the growth of existing satellite broadband services such as Directway, Wildblue, IpStar, and the military Wideband Gapfiller.

The growth of these services can be attributed to the lower cost and higher functionality of new ground terminals featuring significant improvements in coding, higher order modulation, creation of IP networks with QoS for both Star and Mesh topologies, and higher levels of integration.

Additional demand for Ka Band satellites will also be spurred by the US mandate to convert to High Definition Television broadcasts.

Several new applications geared to mobility are creating new markets for which satellites are uniquely qualified, and presage a new era of broadband services to aircraft, such as the internet services offered by Connexion by Boeing and the live television broadcasts by Directv.

The advent of the Galileo project is expected to provide the impetus for a new look at satellite-aided navigation and related communications to improve the management of aircraft in flight, to reduce congestion and to increase the efficiency of travel by using the most direct route.

Refinements in propagation modeling, real time weather information for fade mitigation, and efforts on architectures and protocols offer novel approaches to better utilize the available spectrum and maximize satellite throughput.

In view of the above developments, the **Ka and Broadband Conference** is soliciting papers that highlight broadband and mobile communications, satellite-aided navigation, and the traditional applications in Ka Band for the following sessions:

- **Satellite-Aided Navigation**
- **Mobile Broadband Services**
- **New and Updated Ka Band Flight Systems**
- **Military Application and Systems**
- **Ground Systems**
- **Advances in Ka Band Components**
- **Experimental Ka Band Results**
- **Satellite Architectures**
- **Communications Protocols**
- **Ka Band Propagation and Fade Mitigation**
- **Marketing**
- **Regulatory Issues**

The Conference will also host the **Fourth BroadSky Workshop** organized in cooperation with **NICT**, the National Institute of Information and Communications of Japan.



Announcement  
Call for Papers

## Abstract Submissions

Authors are invited to submit one page abstracts via the web site [www.kaconf.org](http://www.kaconf.org) by **April 10, 2006**.

Abstracts must include the title, the author's name, affiliation, full postal address, phone and fax numbers, e-mail address and indicate the lead author.

Notification of acceptance will be sent to the lead author by e-mail on **May 15, 2006**.

Authors of accepted abstracts have to submit the final copy-ready papers via the web site [www.kaconf.org](http://www.kaconf.org) by **July 20, 2006**.

## Important Dates

- **April 10, 2006**  
Abstracts due
- **May 15, 2006**  
Lead Author notification
- **July 20, 2006**  
Final copy-ready papers due
- **September 27/ 29, 2006**  
Conference dates



## Technical Committee

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## The Location

The conference will be held at the **Grand Hotel Parker's** in Naples, Italy ([www.grandhotelparkers.it](http://www.grandhotelparkers.it)).

## Naples

Naples (the name comes from the Greek *Neapolis* meaning "new city"), *Napoli* in Italian, is the third most-populated city in Italy and the biggest city in Southern Italy, about 2-hours south of Rome.

It sits on the coast on the northern edge of the Bay of Naples, one of the most beautiful bays in Italy (Islands of Capri, Ischia, Procida). Its close proximity to many interesting sites, such as Pompei, Ercolano, Positano and Amalfi, makes it a good base for pleasant excursions. Naples is a lively and vibrant city, full of wonderful historical and artistic treasures and narrow, winding streets with small and unique shops. Its harbour is the most important port in Southern Italy.

Naples is the main transportation hub for southern Italy with several major train lines.



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For more information, please visit

**[www.kaconf.org](http://www.kaconf.org)**

The train and bus stations are in the huge *Piazza Garibaldi*, on the eastern side of Naples.

The Naples International Airport, *Capodichino*, is well connected to the main cities of Italy and Europe.

