

## 8<sup>th</sup> BroadSky Workshop

### “On-board processing: present status and future trends”

#### Scope

This workshop will present the role of on-board processing in meeting the ever- increasing demands placed on communications, navigation, and earth observation satellites, as they evolve to meet the needs of current and future applications in service to mankind.

The Workshop will present ongoing space activities and technologies, and also look to the future, by identifying the latest on-board processing architectures and related technologies that can help satellites meet the needs of upcoming communications, navigation and earth observations applications

The **Workshop** is organized by **NICT**, the National Institute of Information and Communications Technology of Japan.

#### Workshop Chair

**Hajime Fukuchi**, *Tokyo Metropolitan University, Japan*

#### Vice Chair

**Naoto Kadowaki**, *National Institute of Information and Communications Technology, Japan*

#### Technical Committee

**Yoshihisa Takayama**, *National Institute of Information and Communications Technology, Japan*

**Morio Toyoshima**, *National Institute of Information and Communications Technology, Japan*

**Frank Gargione**, *Satellite Systems Consultant, USA*

#### Secretariat

**Naoko Yoshimura**, *National Institute of Information and Communications Technology, Japan*

**Clotilde Canepa Fertini**, *FGM Events LLC, Italy*



## **PROGRAM**

**Monday, October 20, 2010**

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14:30 **Opening Remarks**

Hajime Fukuchi, Tokyo Metropolitan Univ., Japan

14:40 **On-board processing architecture for satellite communications - From WINDS to the future**

Naoko Yoshimura, NICT, Japan

15:20 **On-Board Processing for Increased Communications Satellite Flexibility and Capacity**

Tom Butash, BAE Systems, USA

16:00 *Coffee Break*

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16:20 **Self-Calibrating Digital Beam Forming Network Subsystem**

Mario Caron, CRC, Canada

17:00 **On-board two-way time comparison in Quasi-zenith satellite system (QZSS)**

Shinichi Hama, NICT, Japan

17:40 **Closing Remarks**

Naoto Kadowaki, NICT, Japan

