

# 16th International Workshop on Space Solar Cell Calibration and Measurement Techniques

## Call for Participants

*Dec. 3-6, 2012 @Takayama Green Hotel,  
Takayama, Gifu, Japan*



宇宙航空研究開発機構  
Japan Aerospace Exploration Agency

# Scope of the Workshop

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**For the first-time participants,**

**This workshop provides an opportunity to discuss about state-of-the-art space solar cell/panel related technologies and technical issues on calibration, characterization and testing methodology. In addition, based on the discussion, we aim to publish international standards (ISO) on space PV technologies.**

**The workshop (generally called “AM0 Workshop”) is now held every year, hosted by NASA, ESA, or JAXA in turns. Discussions are always proceed under frank and friendly atmosphere.**

# Scope of the Workshop (cont'd)

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**This time special issues...**

**According to the results of the last ISO meeting (TC20/SC14/WG1 Spring Meeting in Brazil), we are obliged to complete the IS15387 (cell calibration methods) revision and also proceed NWI on multi-junction solar cell characterization method as soon as possible, since multi-junction solar cells are already practically utilized. (The convener said the standards are far behind to the status they should be.)**

**Therefore, the chair thinks we should resume working group discussion at this workshop, and discuss about the missions requested by ISO.**

# General Information

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## 1. Date

December 3<sup>rd</sup> – 6<sup>th</sup>, 2012

... in conjunction with RASEDA (10<sup>th</sup> - 12<sup>th</sup>, Tsukuba)

## 2. Venue

**Takayama Green Hotel, Takayama, Gifu, Japan**

(<http://www.takayama-gh.com/translation/index.html>)

## 3. Registration Fee (Only cash is accepted)

**JPY 28,000**

(Excursion, 2 dinners and 3 lunches included)

**JPY 20,000 for accompanying person**

(Excursion & 2 dinners included)

**Registration will begin in September!**



# Workshop Schedule (tentative)

Monday	Tuesday	Wednesday	Thursday
	9:00 -9:30 Opening	9:00 -9:15 Day 2 guidance	9:00 -9:10 Day 3 guidance
	9:30 – 12:30 Plenary presentations	09:15 – 12:00 Working group discussion I	09:10 – 12:00 Working group discussion II
	12:30 – 13:30 Lunch break	12:00 – 13:00 Lunch break	12:00 – 13:00 Lunch break
	13:30 – 17:00 Plenary presentations (cont'd)	13:00 – 21:30  Excursion to Shirakawa-Go and Workshop banquet	13:00 – 14:00 Working group wrap-up
			14:00 – 15:00 Closing
17:00 -19:30 Welcome reception	19:00 – 21:00 Workshop dinner		Sushi dinner tour (optional)

On Monday (10:00-16:00), JAXA holds a domestic space PV workshop at the same room. You can join if you wish. It is free of charge, but the language is Japanese.

# Working Group (tentative)

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## Working Group-1: Measurement

deals with...

**IS15387: Calibration Methods for Space Solar Cells  
(revision)**

**NWIP: Space Solar Cell Characterization Methods**

## Working Group-2: Radiation

deals with...

**IS23038: Solar Cell Irradiation Test Methods (revision)**

**NWIP: Radiation Degradation Prediction Methods**

# Contact

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**For further information and/or requests including presentation at the plenary sessions, please contact to...**

## **Host/Chair**

**Mitsuru Imaizumi, JAXA**

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# Appendices

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- **Venue (Takayama Green Hotel)**
- **Excursion (Shirakawa-Go Village)**
- **Other Entertainments**
- **Access (Transportation)**

# Workshop Venue



Takayama Green Hotel is located in a walking distance from Takayama Station.

But you can ride the hotel shuttle bus that leaves every 30 minutes till 18:30.



# Workshop Venue



Special Room (Tenryo)  
Rate (breakfast included)  
Double use: JPY10,400/person  
Single use: JPY13,600/room



Standard Room  
Rate (breakfast included)  
Double use: JPY8,000/person  
Single use: JPY11,200/room

We are keeping brock of the rooms from Dec. 2<sup>nd</sup> to 7<sup>th</sup>.  
Internet connection is free!!

# Workshop Venue



There is a strict dress code in the hotel. We have to wear this Japanese bathrobe anytime, anywhere. (kidding)

You can enjoy onsen (hot-spring bath) for sure!  
There are two big hot-tub rooms.

# Workshop Venue



The workshop dinner on 4<sup>th</sup> will be held in this restaurant in the hotel. It will be Japanese hot-pot dinner with buffet style. Beverages are on your own payment, sorry.

Takayama-style ramen noodle is available at the other restaurant.



There are karaoke rooms in the hotel. Please enjoy singing after dinner.

Charge:  
JPY1500/person/90min



# Workshop Venue

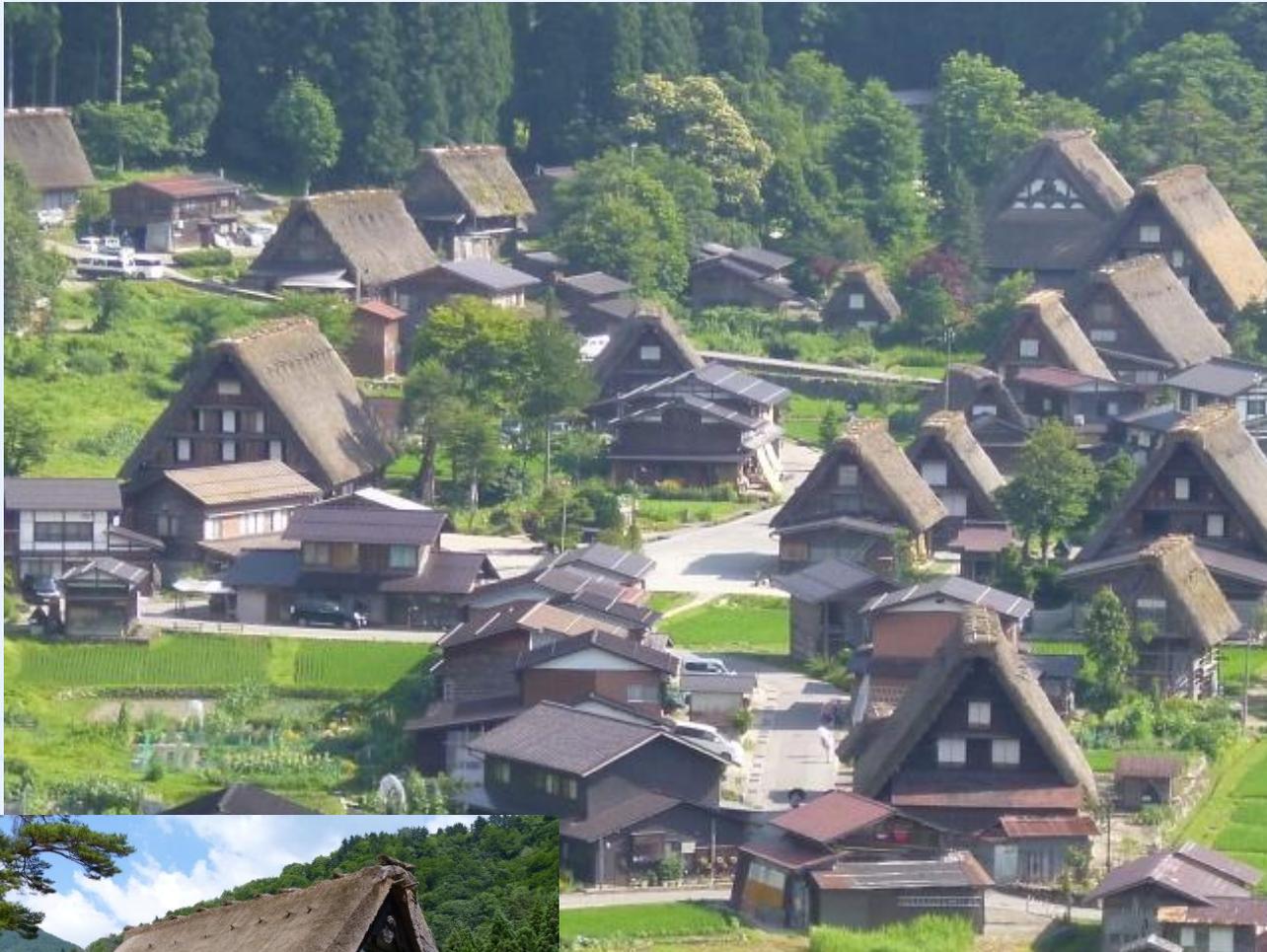


Right next to the hotel, there is a big souvenir shop. They are open from 7a.m. to 10p.m.

All kinds of local foods, traditional handicrafts and Japanese sake are available.



# Excursion (Shirakawa-Go, A World Heritage)



They are still actually living there, so please do not disturb them!



For the excursion, we will visit a small village where residents preserve their old-style houses that roofs are made of straw. The village is registered as a world heritage.



# Workshop Dinner



Takayama area is famous for good (=expensive) beef as well. So, I selected Takayama beef party with Korean BBQ style for the workshop banquet.

Again, extra meats and beverages are on your own payment, sorry.



# Downtown Takayama



In downtown Takayama, you can find streets where old buildings are preserved. It is like a small Kyoto! On the street, there are souvenir shops, cafes, soba-noodle restaurants and two sake breweries. If you wish, you can do sake tasting.

You can walk to there from the station or the hotel.

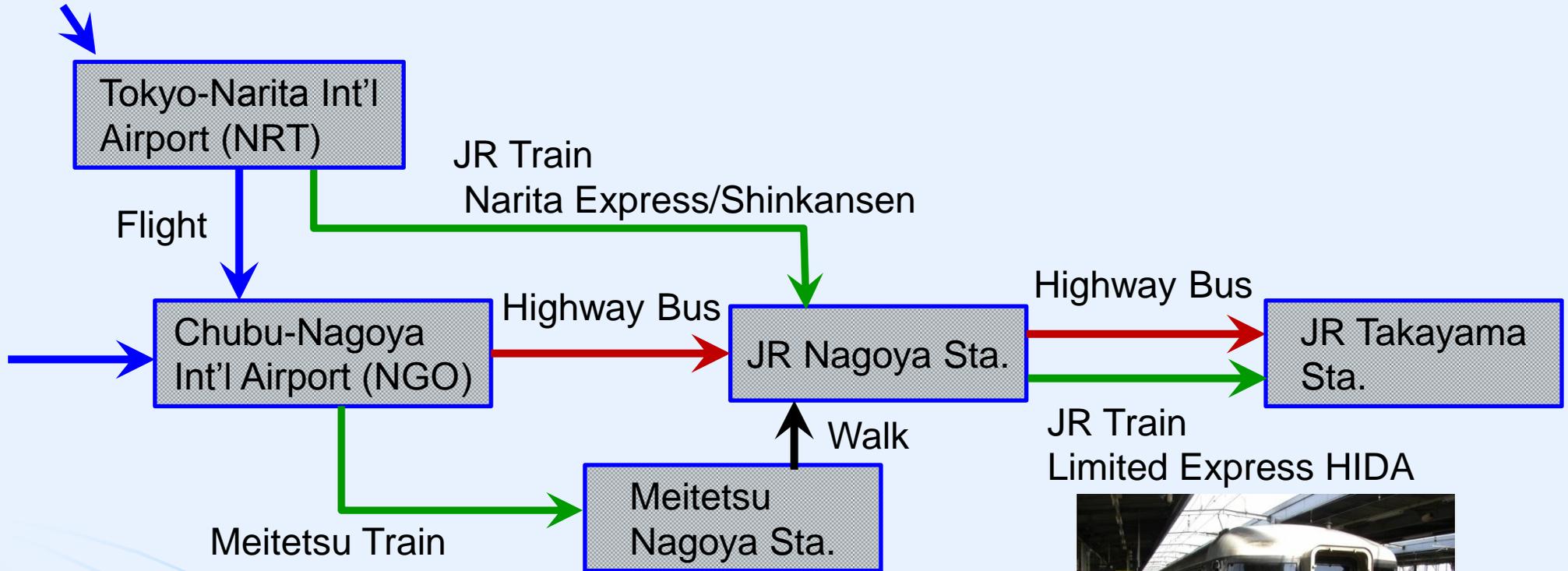
# Downtown Takayama



Every morning, street market is open at two locations in downtown. You can take a look and buy local products.



# Access - Transportation



# Access - Transportation

For your flight to Japan, I strongly recommend to fly in Nagoya (Centrair) Airport because...



There are lots of good restaurants. My 1<sup>st</sup> recommendation is this seafood restaurant "MARUHA".

Since it is a small airport, access is easy.



There is a hot-tub in the airport!!



My 2<sup>nd</sup> recommendation is this pork cutlet restaurant "YABATON".



# Access - Transportation

For your transportation from Nagoya station to Takayama station, I recommend to take the limited express train HIDA because...



Of course it is faster than the highway bus. But, in addition, it runs along a river so scenery from window is beautiful.



Beer is available on the train!!

# Welcome

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**We are looking forward to seeing you again  
in Takayama, Japan in December!!**

**Do not forget to bring your coat!  
It is cold in Takayama.**