

# Welcome to Miyazaki



Organizers:



# bifi PV 2016 workshop



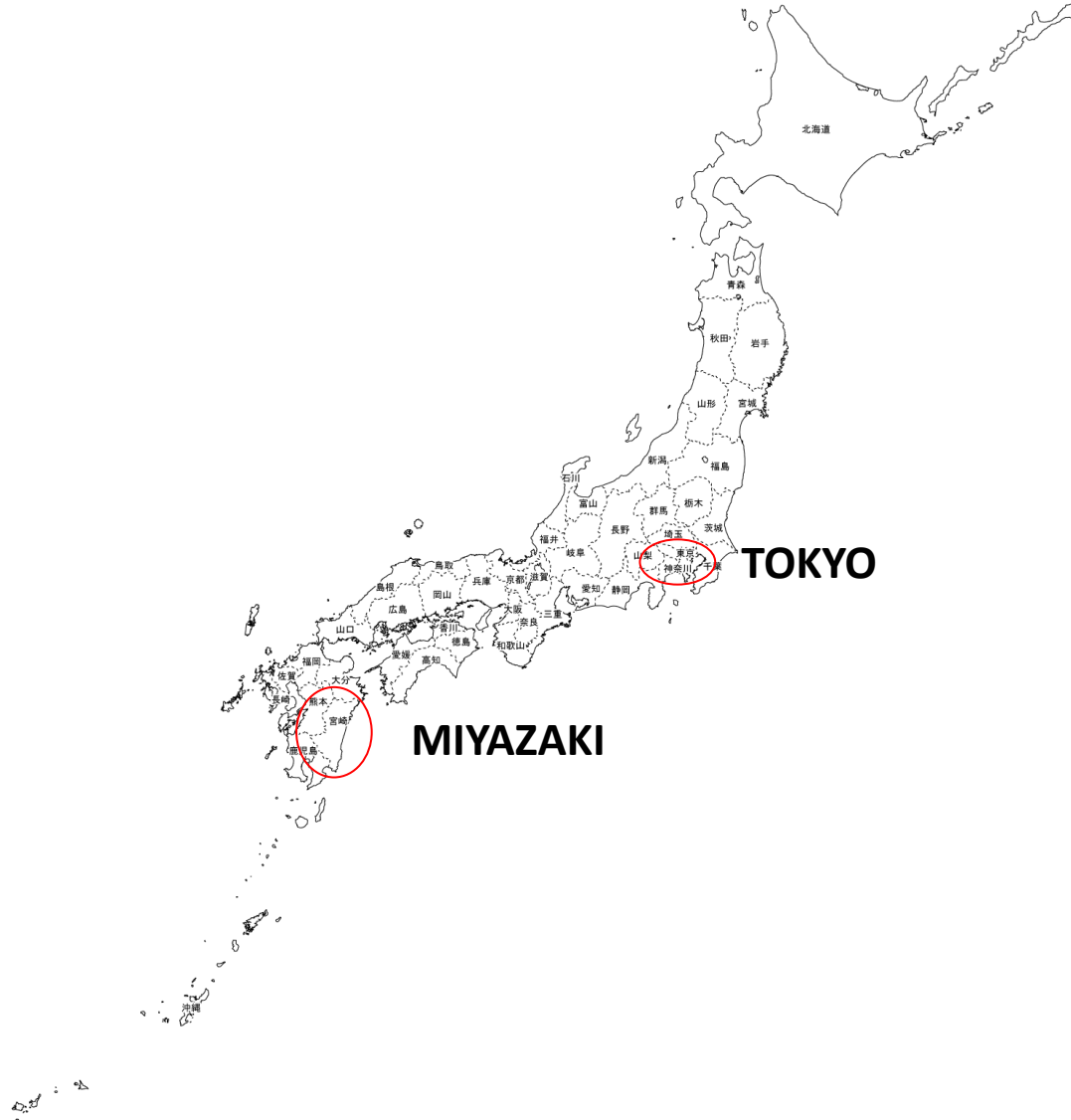
MEYER BURGER

DATE / September 29-30, 2016


## Your organizers

- Kensuke Nishioka (University of Miyazaki)
- Shinji Goda (PVGS)
- Ingrid Romijn (ECN)
- Yannick Veschetti (INES)
- Radovan Kopecek (ISC Konstanz)

# bifi PV 2016 workshop





Miyazaki is renowned for its natural and cultural beauty and has been symbolized as a town of sunshine. 

According to Japanese mythology, Miyazaki is believed to be the home of the gods who created Japan.







Shochu (a distilled spirit)  
from sweet potato  
made in Miyazaki







Sweet from sweet potato  
made in Miyazaki





The workshop is held in a resort area along the beach and surrounded by forests.

In this isolated paradise, you will have concentrated discussions on bifi PV technologies!

Enjoy good foods and drinks with your PV friends.



# bifi PV 2016 workshop

**CIGS PV**  
100 kW  
Solar Frontier



**CPV**  
14 kW × 2 systems  
Daido Steel Co. Ltd.



**Multi-crystalline Si PV**  
50 kW  
Mitsubishi Electric Corporation



**CPV**  
10 kW × 2 systems  
Sumitomo Electric Industries, Ltd.



**Thin film Si PV**  
4 kW  
KANEKA Corporation



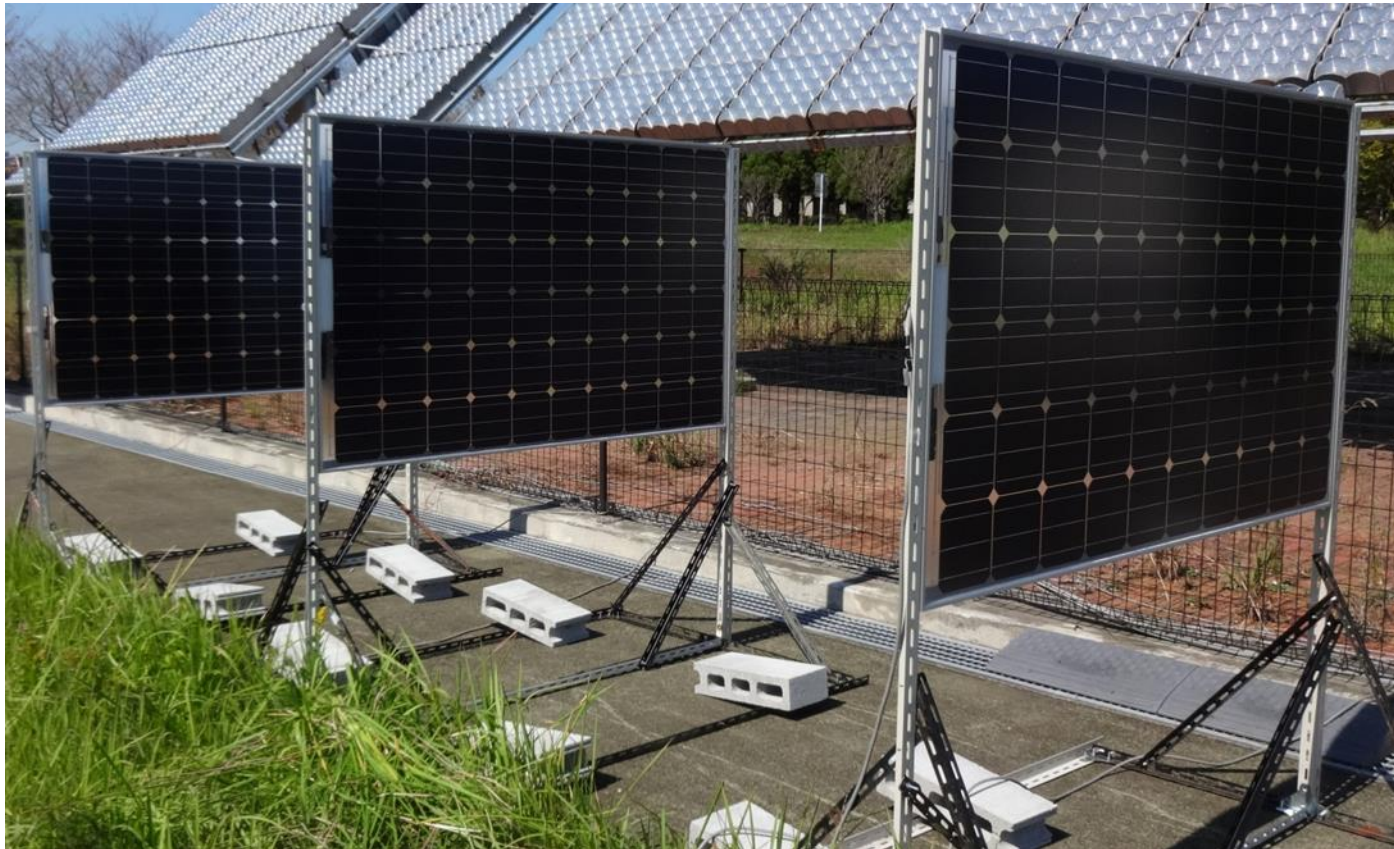
**Beam-Down  
Solar Concentrator**



**CPV**  
10 kW  
Sharp Corporation







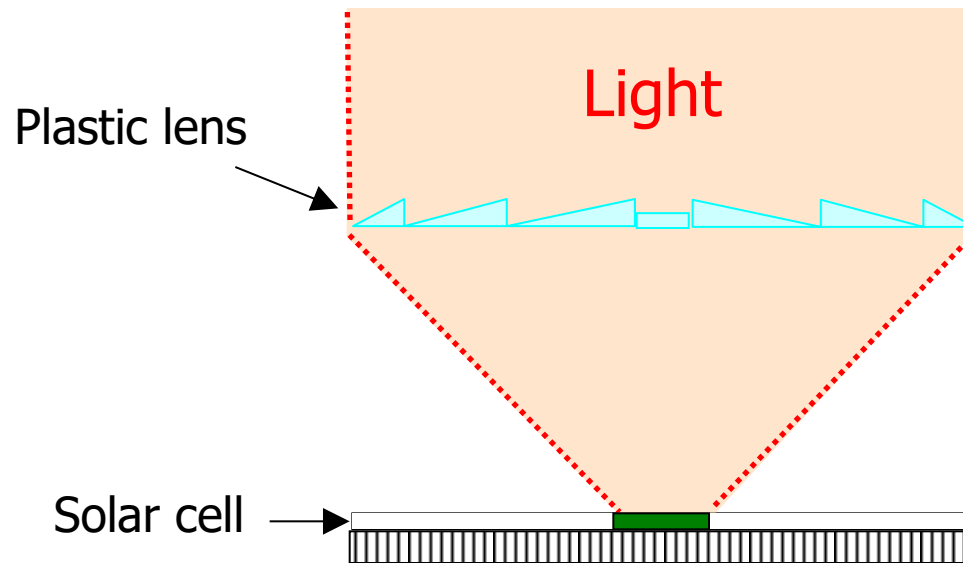
**with PVGS**  
**Soiling ? Temperature ?**



# Concentrator photovoltaic (CPV) systems

University of Miyazaki  
Faculty of Engineering

One way to resolve the problem of cost and shortage of semiconductor materials is to employ concentrator systems.



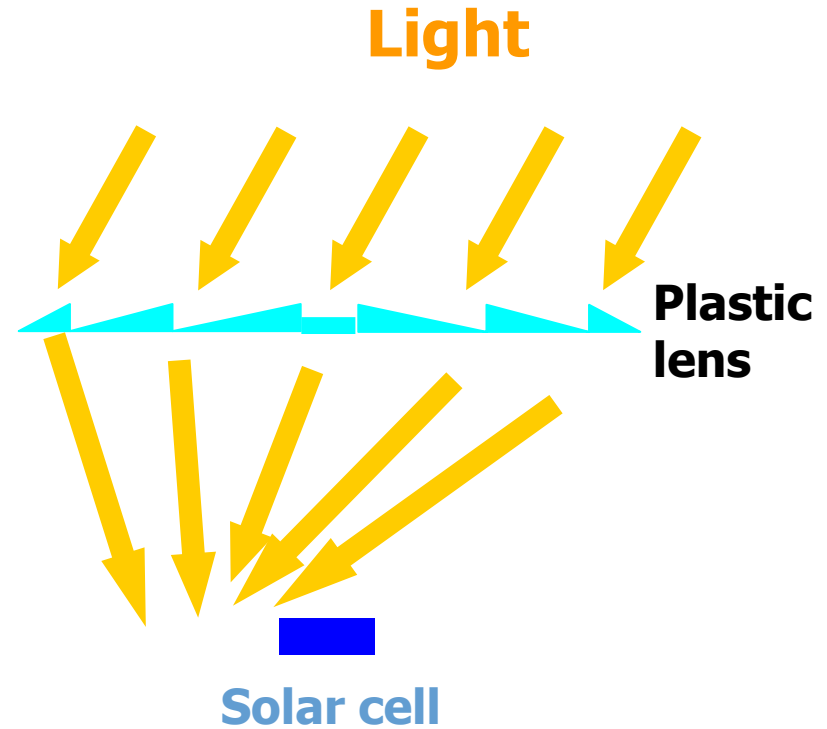
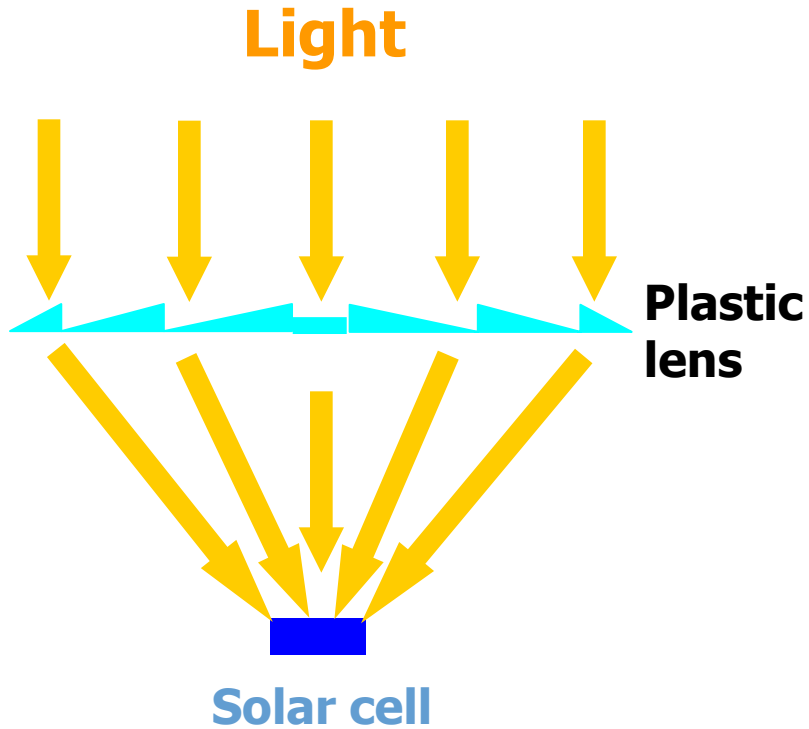
**Low-cost lens reduces the area of high-cost solar cells.**



# Solar tracking

Sunlight irradiates perpendicularly.

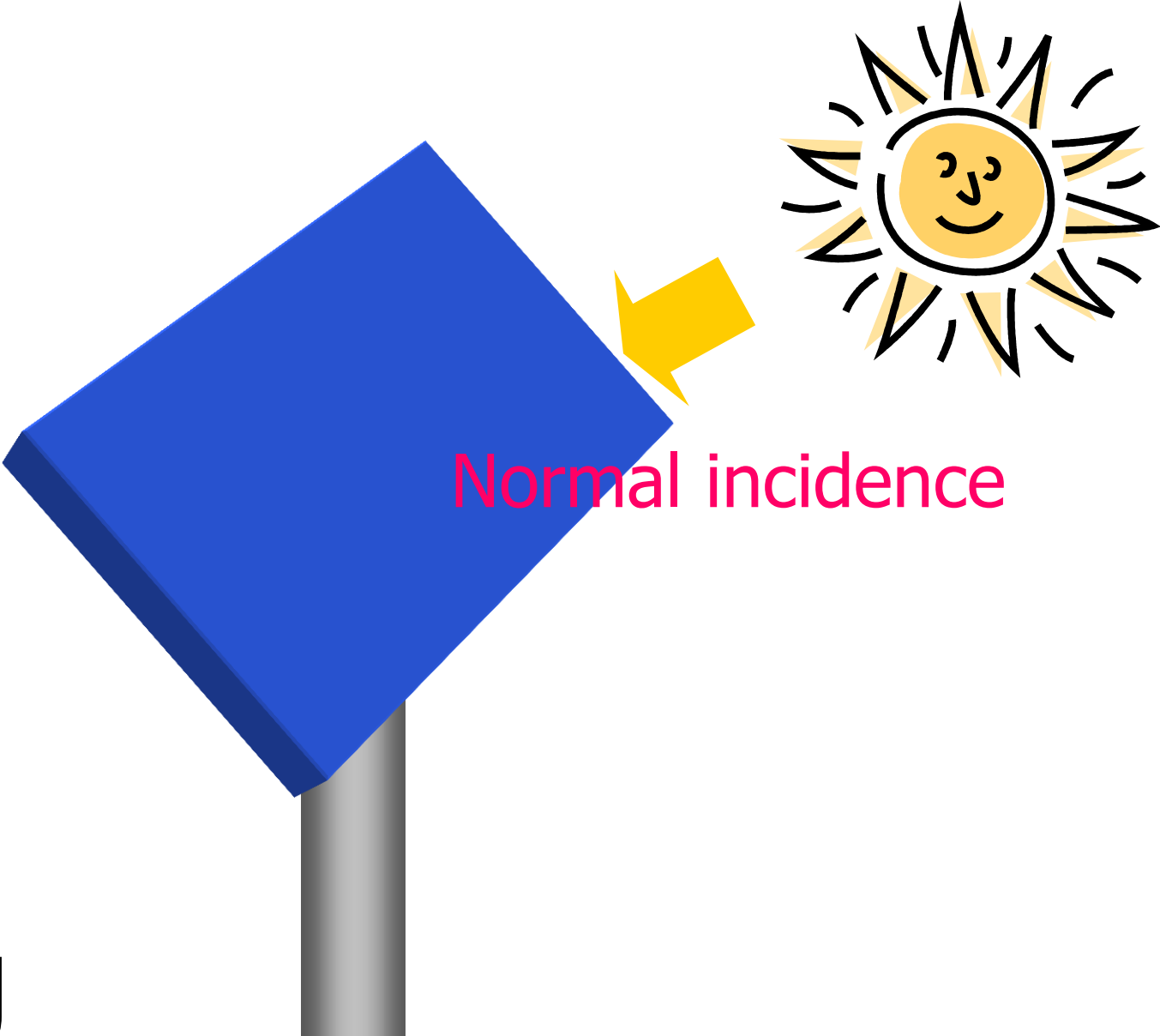
Sunlight can't irradiate perpendicularly.



**Solar tracking is needed for concentrator photovoltaic systems.**



# Solar tracking



Morning

Solar tracking

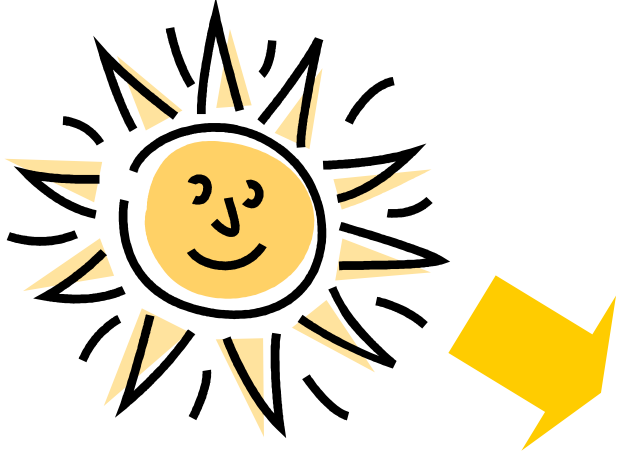


Normal incidence

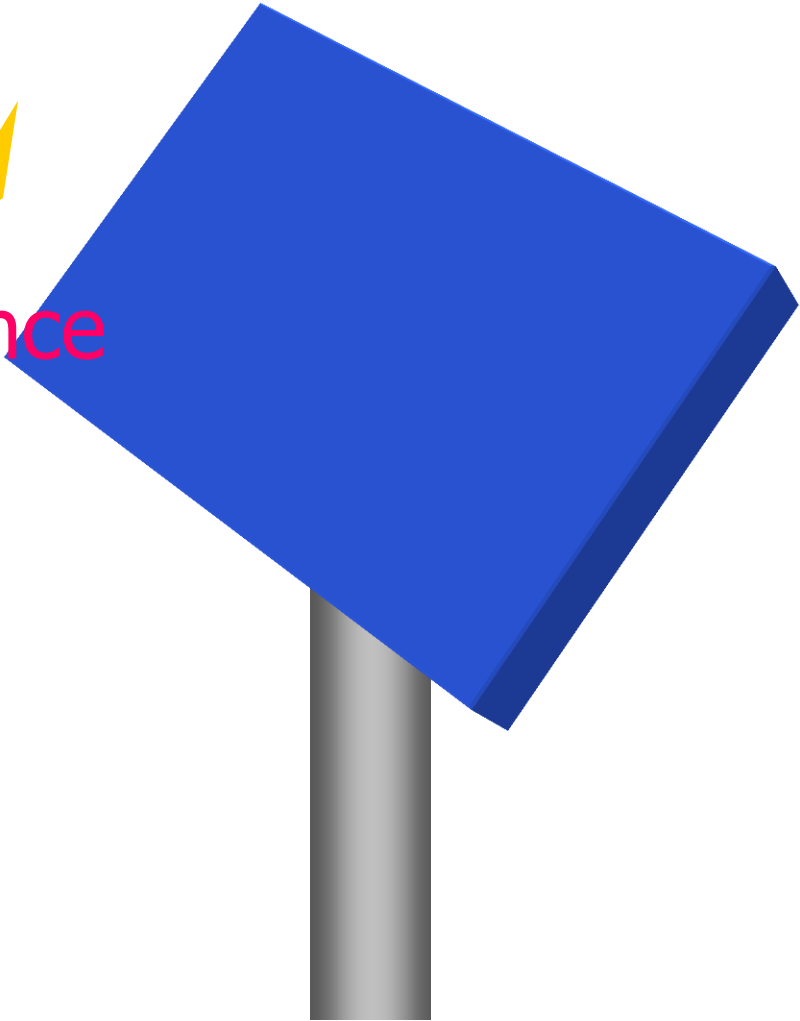


Noon

Solar tracking



Normal incidence



Evening



# Solar tracking





## Organizers from Univ. Miyazaki

- Kensuke Nishioka (University of Miyazaki)
- Kenji Yoshino (University of Miyazaki)
- Yasuyuki Ota (University of Miyazaki)

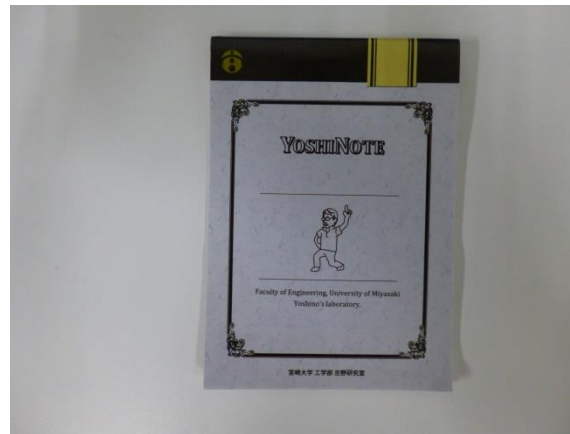


## Nice goods for you from Prof. Yoshino

“Yoshino goods”



• **Yoshino-te**



• **Yoshino pen**



# Speakers

**Please upload  
your presentation file  
before your session.**

**Coffee Break**

**This room**

**Lunch**

**Next room on this floor**

**Dinner**

**Next room on this floor**

**Free of charge!!**





Organizers: 宮崎大学 University of Miyazaki ines International Solar Energy Research Center Institute of Space and Astronautical Science ISAS ECN

# bifi PV 2016 workshop

Sponsors:  **SUNPREME**  MEYER BURGER

## Thank you sponsors for great support!!!!



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**bifi PV 2016 is  
open.**



# Enjoy your workshop.