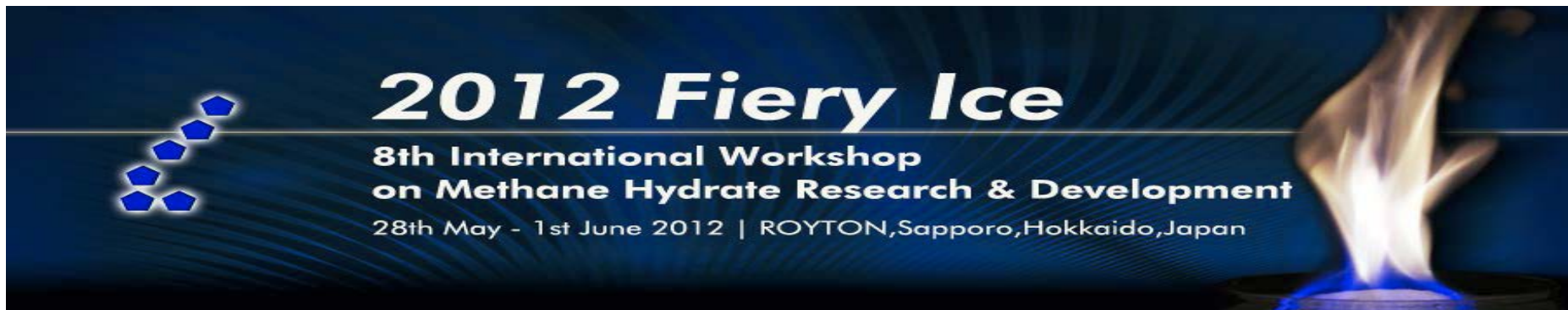


# Summary of Fiery Ice 2012

- 1. Construction of the Workshop*
- 2. Presentations*
- 3. Short summary of the Breakout sessions*
- 4. Others*

120531 Uchida



# 1. Construction

## 1. *Participants*

1) Total number                      **101**  
(Registration base)

Academic

Industrial

Governmental

Students



## **2012 Fiery Ice**

**8th International Workshop  
on Methane Hydrate Research & Development**

28th May - 1st June 2012 | ROYTON, Sapporo, Hokkaido, Japan



# 1. Construction

## 1. *Participants*

2) Participants' nations	16 countries
Japan	56
Asia	21
Europe	15
America & Oceania	9



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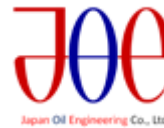


# 1. Construction

## 2. Sponsors



...ISC

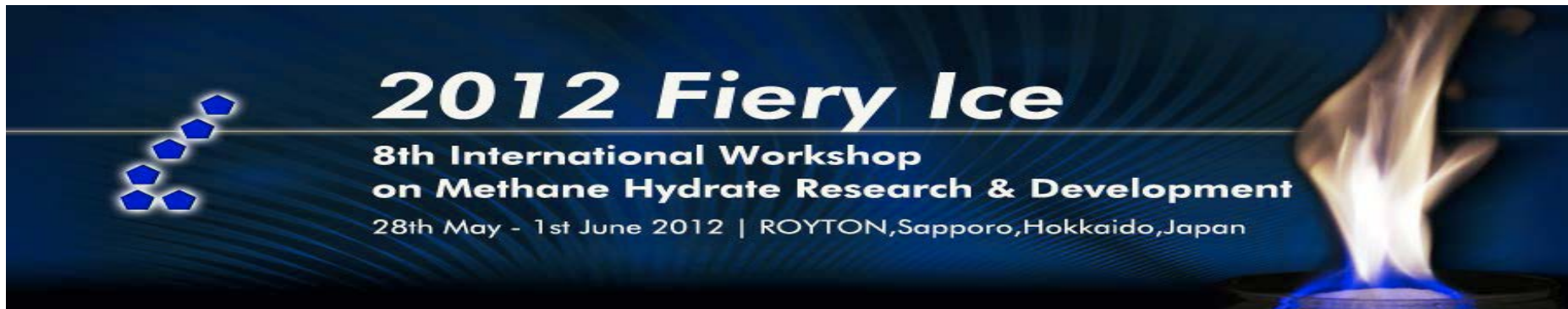


- ...Booth Exhibition
- ...Schlumberger Night



# 2. Presentations

- 1) 3 summaries  
(2 Keynote speeches and a Banquet talk)
- 2) 12 national reports  
(Presentations will be included in the final report)
- 3) 49 individual researches
  - { 14 oral presentations
  - { 35 poster presentations



# 3. Breakout sessions

## 1. Evaluation of Methane Hydrate Resource Potential

Chair: Dr. Tatsuya Fujii (JOGMEC, Japan)

Rapporteur: Dr. Miko Fohrmann (GNS Sci., New Zealand)

Attendee (25):

\* State of the art:

MH occurrence, esp. around Japan

Current evaluating methods of MH resource potential

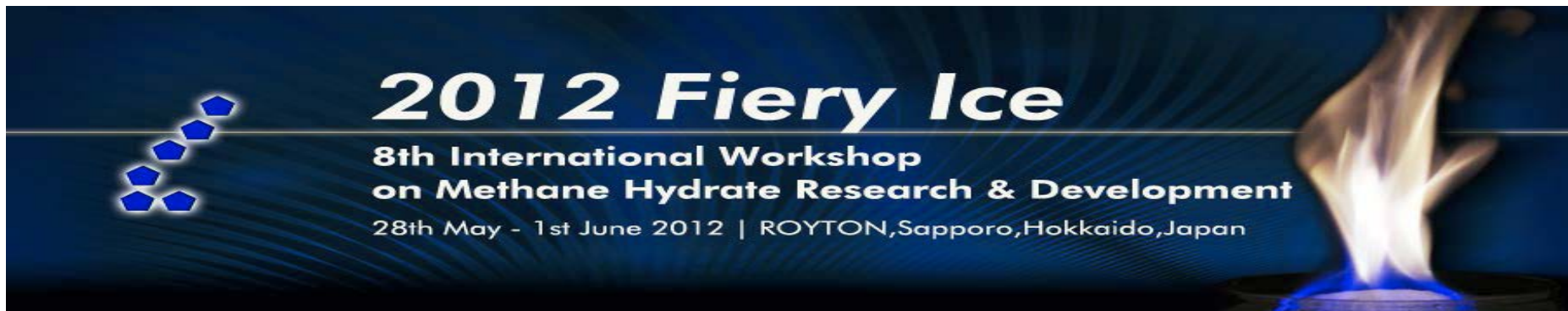
\* Discussions:

Supplementary methods for evaluating MH resource potential

Trap and Seal

Resource assessment and production methods

Alternative MH reservoirs



# 3. Breakout sessions

## 2. Environment Impact

Chair: Prof. Kvamme (Univ. Bergen)

Rapporteur: Dr. Nesse (Statoil)

Attendee (22):

\* State of the art & Discussions:

CO<sub>2</sub> storage underground;

- will it assist in sealing the reservoir?
- storing CO<sub>2</sub> in Hydrate Reservoirs

Methane Hydrate in relation to Global Warming

Geo Hazard & Bio system health assessment



# 3. Breakout sessions

## 3. Industrial Utilization of Gas Hydrate

Chair: Dr. Sano (MES)

Rapporteur: Dr. Seo (KAIST)

Attendee (21):

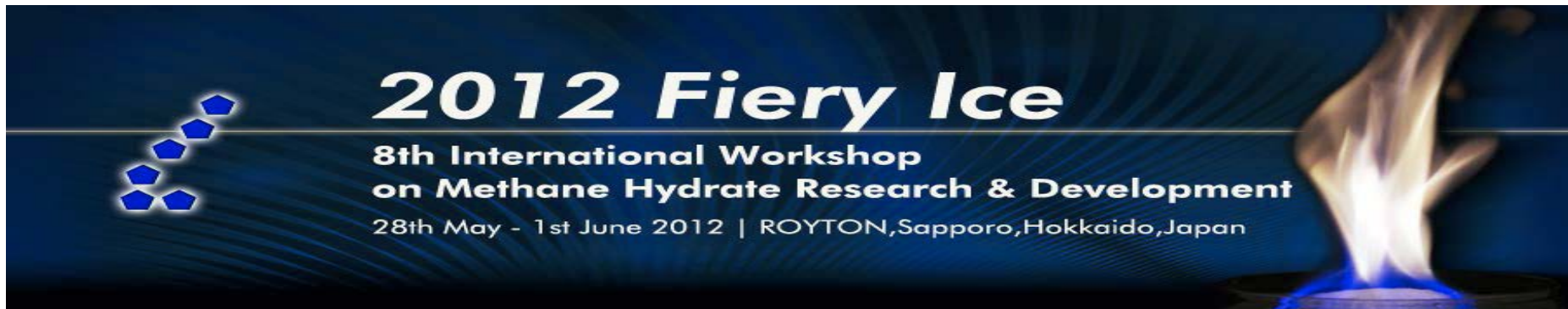
### \* State of the art & Discussions:

Gas transportation via making hydrate pellets

Economic evaluation of gas transportation via hydrate

- what should we know for feasibility study?

Recommendation: more publication for this issue to international journals





# 3. Breakout sessions

## 4. Methane Gas Hydrate Exploitation and Development

Chair: Dr. Yamamoto (JOGMEC)

Rapporteur: Dr. Dallimore (NRC)

Attendee (23):

### ✓ **Define questions**

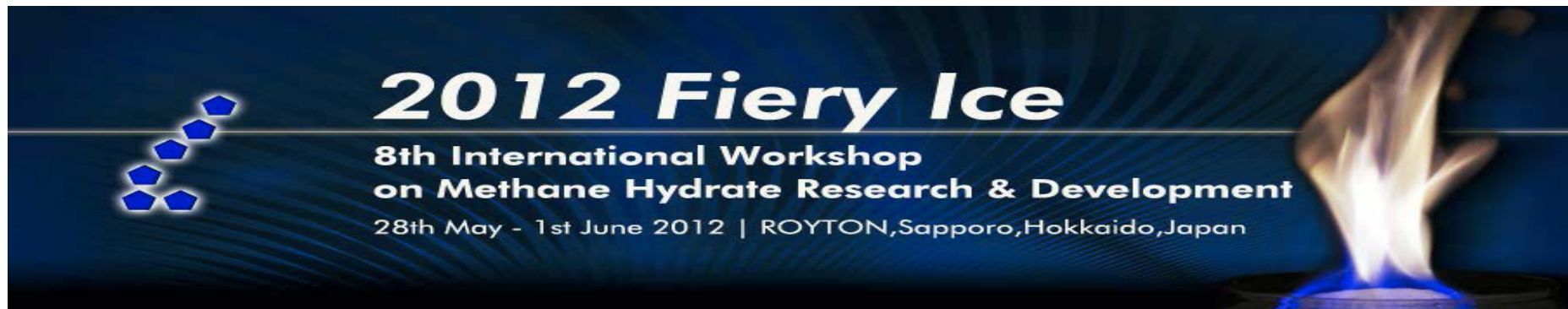
discussions focussed on production rather than exploration considerations

### ✓ **Find-out possible solutions and Discuss on research strategy**

on Reservoir characterization

on Reservoir simulation modeling

on Field test and commercial scale production



# 3. Breakout sessions

## 5. Mechanisms of Hydrate Accumulations in Nature

Chair: Dr. Yoshioka (AIST)

Rapporteur: Dr. Coffin (NRL)

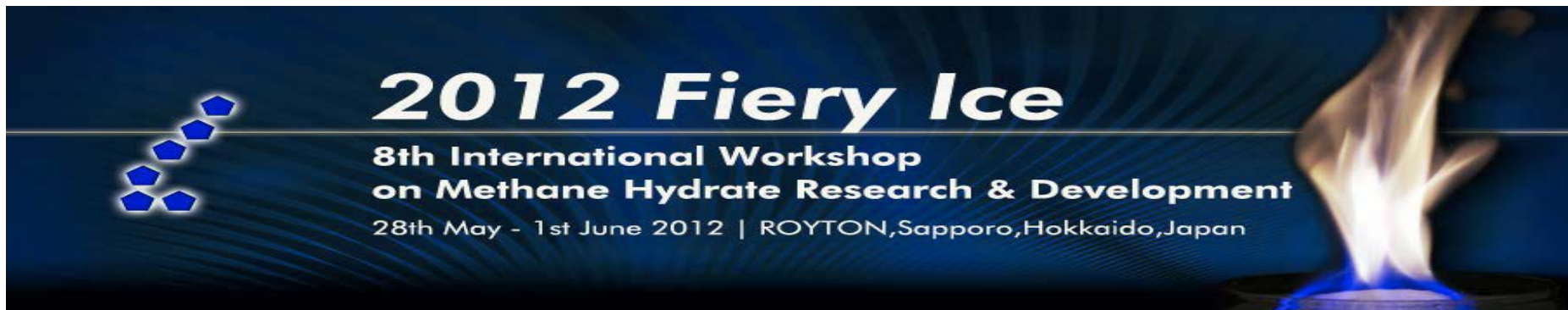
Attendee (17):

\* State of the art:

CH<sub>4</sub> origin, CH<sub>4</sub> accumulation processes and analysis, geochemistry  
— case study in various regions

\* Discussions:

depth of CH<sub>4</sub> sources and the vertical flux,  
the cap rock importance, ...etc.



# 3. Breakout sessions

## 6. Fundamental Hydrate Science Challenges

Chair: Prof. Mori (Keio University)

Rapporteur: Prof. Masutani (Hawaii Univ.)

Attendee (20):

\* State of the art:

Self-preservation effect

Hydrate guest molecule exchange

\* Discussions:

What is the mechanism?

Can these properties be reliably applied for certain engineering applications?



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# 4. Others

## *1. Pre-workshop tour*



Mt. Usu, Lake-Toya & Geo park

# 4. Others

## 2. *Post-workshop tour*

### For Attendee to Post-Workshop Laboratory Tour on 1<sup>st</sup> June

1. *The schedule is changed on Abstract Book and Hand Book.*
2. *Laboratory Tour will start at 10:00 on 1<sup>st</sup> June.*
3. *Bus to the AIST Hokkaido will leave at 9:00 from Royton Hotel.*
4. *If you would like to use Bus service, please meet at Lobby of Royton Hotel by 8:45.*
5. *If you individually come to the AIST Hokkaido, please reach to AIST Hokkaido by 9:45.*



# 4. Others

## 3. Committee

### **Fiery Ice International Steering Committee**

<i>Richard B. Coffin,</i>	Naval Research Laboratory, Washington, D.C., U.S.A.
<i>Bjørn Kvamme,</i>	University of Bergen, Bergen, Norway
<i>Stephen M. Masutani,</i>	University of Hawaii, Honolulu, U.S.A.
<i>Hideo Narita,</i>	AIST, Sapporo, Japan
<i>Tsutomu Uchida,</i>	Hokkaido University, Sapporo, Japan

### **Fiery Ice Local Organizing Committee**

<i>Hideo Narita,</i>	AIST, Japan
<i>Tsutomu Uchida,</i>	Hokkaido Univ., Japan
<i>Jiro Nagao,</i>	AIST, Japan
<i>Tatsuo Saeki,</i>	JOGMEC, Japan
<i>Masanori Kurihara,</i>	Waseda Univ., Japan
<i>Kenichi Sano,</i>	Mitsui Engineering & Shipbuilding Co., Ltd., Japan
<i>Norio Tenma,</i>	AIST, Japan
<i>Yoshinori Furukawa,</i>	Hokkaido Univ., Japan
<i>Takeo Hondoh,</i>	Hokkaido Univ., Japan
<i>Kotaro Ohga,</i>	Hokkaido Univ., Japan
<i>Hideki Minagawa,</i>	AIST, Japan
<i>Akiko Ono,</i>	AIST, Japan

...supported by *GHRI-AIST, Nippon Travel Agency and Royton Sapporo*

# Thanks & See you in next WS!

