

# CONTENTS

<b>Opening Remarks</b>	
<b>KOYAMA Osamu</b>	..... 5
President, JIRCAS	

<b>Welcome Remarks</b>	
<b>KOYA Takashi</b>	..... 7
Director General of Fisheries Agency, Ministry of Agriculture, Forestry and Fisheries (MAFF)	

---

## Keynote Speeches

---

<b>The role of artisanal fisheries and aquaculture in sustainable food systems</b>	
<b>YAGI Nobuyuki</b>	..... 11
Professor, Graduate School of Agricultural and Life Sciences The University of Tokyo	

<b>Transforming Food Systems: Aquatic Foods for Nourishing People and Planet</b>	
<b>Shakuntala Haraksingh Thilsted</b>	..... 21
Global Lead, Nutrition and Public Health, WorldFish	

---

## Session 1

---

<b>“The Challenges of Artisanal Fisheries and Aquaculture in the Sustainable Food Systems”</b>	
	..... 27
Chairperson: <b>NAKASHIMA Kazuo</b>	
Program Director/Food, JIRCAS	

<b>The issues of artisanal fisheries and aquaculture in sustainable food systems in Southeast Asia</b>	
	..... 29
<b>MIYATA Tsutom</b>	
Director, Fisheries Division, JIRCAS	

<b>Issues of sustainable aquacultural seedlings in Japan</b>	
	..... 35
<b>SAKIYAMA Kazutaka</b>	
Director, Production Engineering Division, Aquaculture Research Department, Fisheries Technology Institute, Japan Fisheries Research and Education Agency (FRA)	

<b>Potential of seaweed utilization for greenhouse gas emissions reduction</b>	
	..... 41
<b>Jeffrey T. Wright</b>	
Associate Professor, Institute for Marine and Antarctic Studies University of Tasmania	

---

## Session 2

---

**“Research and Application to Enhance Sustainability and Productivity of Artisanal Fisheries and Aquaculture”** ..... 47

Chairperson: **KANAMORI Norihito**  
Project Leader/Information Hub, JIRCAS

---

**Development of sustainable bivalve aquaculture technology adapted to tropical monsoon region** ..... 49

**YURIMOTO Tatsuya**  
Senior Researcher, Fisheries Division, JIRCAS

**Management, production and utilization of small indigenous species “Zako” for nutritional improvement in rural areas and biodiversity conservation in inland Southeast Asia** ..... 55

**MORIOKA Shinsuke**  
Professor, Department of Field Ecology, Faculty of Environmental Science University of Human Environments

**Improving artisanal fisheries through community-based prawn stock enhancement in a mangrove estuary** ..... 59

**Jon P. Altamirano**  
Scientist and Head, Farming Systems and Ecology Section, Research Division  
Southeast Asian Fisheries Development Center, Aquaculture Department (SEAFDEC/AQD)

---

## Panel Discussion

---

Panel Chair: **Marcy N. Wilder** ..... 67  
Project Leader, Research Application/Ventures, JIRCAS

---

**Closing Remarks** ..... 77  
**YAMAMOTO Yukiyo**  
Vice-President, JIRCAS