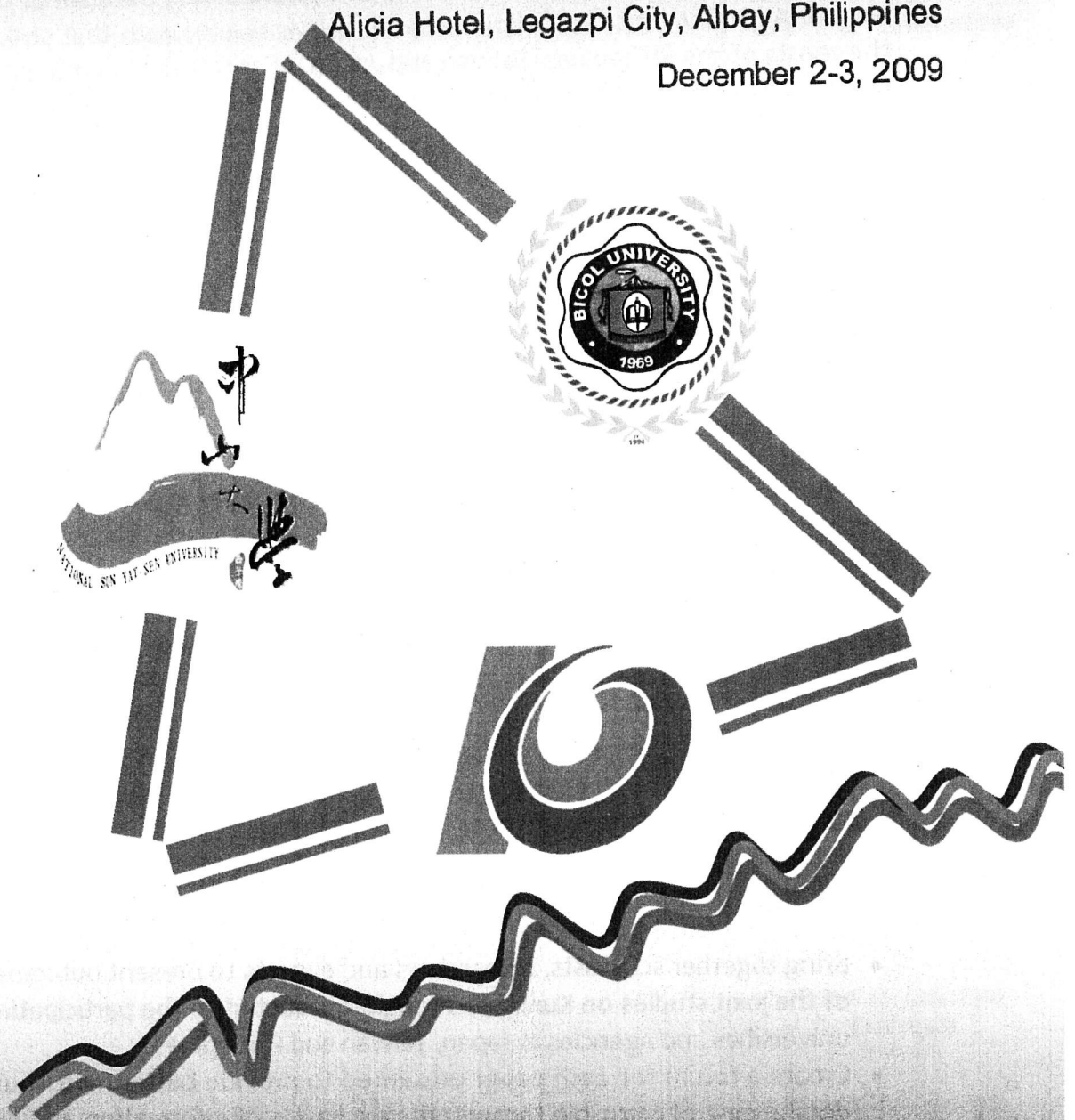


3rd International Conference on Kuroshio Science

Alicia Hotel, Legazpi City, Albay, Philippines

December 2-3, 2009



Theme:

**“Investigating Benefits and Balance Along Kuroshio:
Challenges to Marine Biodiversity and
Resource Management”**

Rationale:

Kuroshio Current has been referred to as Typhoon Alley because of the severe tropical storms that follow its warm-water energy path that strikes the coasts of the Philippines, Taiwan and Japan. For this reason, Kuroshio together with the current broad scale phenomenon of global warming have tremendously influenced the way of life of the people living in coastal areas including the terrestrial and marine resources upon which their economy depend on. To understand better the impacts of Kuroshio from ecological, environmental, economic and social perspectives in the countries involved, this conference was conceptualized and is expected to bring scientific information beneficial to all countries. It is hoped that through this conference meaningful solutions to common problems and further collaborations/cooperation will be forged for a better tomorrow, particularly in the aspects of marine protection, management and conservation.

As has been done in the past two workshops held in Japan and Taiwan (Kuroshio Biodiversity Research: International Symposium for Kuroshio Studies, held at the Auditorium of Department of Marine Environment and Engineering, National Sun Yat-sen University, Kaoshiung, Taiwan, November 30 to December 4, 2008), representatives from universities in Graduate School of Kuroshio Science, Kochi University, Japan, the National Sun Yat-sen University, Kaoshiung, Taiwan and Bicol University through the Tabaco Campus, Albay Philippines will be invited to present papers in the field of (1) Coastal Resource Management, (2) Fishery Resources, (3) Resources and Habitat, and (4) Biological Sciences and Oceanography.

Objectives:

- Bring together scientists, researchers and experts to present outcomes of the joint studies on Kuroshio Triangle conducted by the participating universities and agencies in Japan, Taiwan and Philippines.
- Create a forum for each paper presented to provide better mutual understanding of Kuroshio through the exchange of information and discuss issues and challenges encountered.
- Contribute in the enhancement of public awareness of Kuroshio related researches.

PROGRAMME

3rd International Conference on Kuroshio Science

Theme: *Investigating Benefits and Balance Along Kuroshio: Challenges to Marine Biodiversity and Resource Management*

Day 1 - December 2, 2009 (Wednesday)

8:00-9:00 AM	REGISTRATION	
9:00-11:00 AM	OPENING PROGRAM	
	Doxology	Bicol University Tabaco Campus students
	Philippine National Anthem	Dr. Milard P. Subagan Conducting
	Welcome Address	Dr. Milagros Esparago CHED Specialist II, CHED-ROV Legaspi City, Albay, Philippines
		Hon. Krisel Lagman-Luistro City Mayor, Tabaco City, Albay Philippines
		Hon. Joey S. Salceda Governor, Province of Albay Philippines
	Keynote Address	Dr. Shimpei Inoue Vice President Kochi University, Japan
		Dr. Tse-Min Lee Professor National Sun Yat-Sen University Kaoshiung, Taiwan Republic Of China
		Dr. Fay Lea Patria M. Lauraya SUC President IV, Bicol University Legazpi City, Albay, Philippines
	Awarding of Plaque of Appreciation/Commendation	Dr. Fay Lea Patria M. Lauraya
	Signing of MOU between BU and NSYU on Exchange Student	Dr. Fay Lea Patria M. Lauraya Dr. Tse-Min Lee
	Presentation of Participants and Conference Overview	Dr. Plutomeo M. Nieves Dean, Bicol University Tabaco Campus Tabaco City, Albay, Philippines

COASTAL RESOURCE MANAGEMENT

Facilitators: Dr. Plutomeo M. Nieves and Dr. Jeng-Di Lee

1:00-1:20 PM	Six Years of Kuroshio-related Studies among Japan, Taiwan, and the Philippines - Review of the Collaboration and Future Prospective	Prof. Yoshinori Morooka Kochi University, Japan
1:20-1:40 PM	Environment of Oceans in the History of the East Asian Seas	Prof. Hiroshio Yoshio Kochi University, Japan
1:40-2:00 PM	Changes in Resource Utilization and Agroecology in San Miguel Island, Philippines: Perspectives from Participatory Resources Appraisal	Prof. Raul G. Bradecina¹ Prof. Plutomeo M. Nieves² Prof. Ninfa R. Pelea² Prof. Teriyuki Shinbo³ Prof. Yoshinori Morooka³ Maria Corazon P. Rivero² <small>^{1/} Partido State University, Goa Camarines Sur, Philippines ^{2/} Bicol University, Legazpi City Albay, Philippines ^{3/} Kochi University</small>
2:00-2:20 PM	Valuing Marine Protected Areas of San Miguel Island in the Bicol Region, the Philippines - Application of WTP (Willingness to Pay) and WTW (Willingness to Work) Approach by CVM	Prof. Teruyuki Shinbo Cheryll Casiwan Launio Prof. Yoshinori Morooka Kochi University, Japan
2:20-2:40 PM	Factors Contributing to Technical Efficiency of Gear Categories in Lagonoy Gulf, Philippines	Prof. Raul G. Bradecina¹ Prof. Victor S. Soliman² <small>^{1/} Partido State University ^{2/} Bicol University</small>
2:40-3:20 PM	HEALTH BREAK	
3:20-3:40 PM	Environmental Education Rooted in the Local Area of Kashiwajima Island, Otsuki, Kochi	Prof. Masaru Kanda Kuroshio Zikkan Center
3:40-4:00 PM	Assessment of the Coastal Habitats of Bacon, Sorsogon, Philippines	Prof. Ronnel P. Dioneda Prof. Skorzeny de Jesus Prof. Ida H. Revale Arnelyn D. Doloeras Arnel L. Nolial Bicol University

Lady of Ceremonies: **Prof. Glenda Abejuela**
BU Tabaco Campus, Tabaco City

4:00-4:20 PM Socio-economic Conditions, Attitudes and Perceptions on Marine Protected Areas in San Miguel Island, Albay, Philippines

Maria Corazon P. Rivero¹
Prof. Plutomeo M. Nieves¹
Prof. Ninfa R. Pelea¹
Prof. Yoshinori Morooka²
Prof. Terikuyi Shinbo²

1/ Bicol University
2/ Kochi University

4:20-4:40 PM The Kuroshio intrusion along Luzon strait: impact on selected marine organisms in Palau Island, Sta. Ana, Cagayan.

Prof. Meliton Soriano
Cagayan State University
Aparri, Cagayan, Philippines

FISHERY RESOURCES

Facilitators: Prof. Victor S. Soliman and Dr. Kosaku Yamaoka

4:40-5:00 PM The Social-Ecosystem Interaction of the Black Disease of Coral Reef in the Western Pacific Area

Prof. Jeng-Di Lee
Prof. Ying-Yi Kao
Prof. Choi-Pik Yip
National Sun Yat-Sen University,
Kaoshiung, Taiwan, Republic of China

5:00-5:20 PM Assessment of the Fishery for Macro-Invertebrate Gleaning in Lagonoy Gulf: Albay Side Philippines

Prof. Plutomeo M. Nieves
Prof. Skorzeny De Jesus
Josefa Maria D. Pelea
Aldrin Mel B. Macale
Bicol University

5:20-5:40 PM Population Characteristics, Reproduction and Growth of the Non-indigenous Green Mussel *Perna viridis* in the Uranouchi Inlet, Kochi, Japan

Chiharu Yamada¹
Prof. Gyo Itani¹
Hodaka Asama²
Prof. Zenji Imoto¹
Prof. Hiroshi Ueda¹
1/ Kochi University
2/ Sumiko Techno Research Co. Ltd., Japan

7:00-9:00 PM

CULTURAL SHOW AND DINNER

Day 2 - December 3, 2009 (Thursday)

8:40-9:00 AM Conservation on the Critically Endangered Marine Mammals *Sousa chinensis* in Taiwan

Prof. Jeng-Di Lee¹
Prof. Hsing-Hsuan Chen¹
Prof. Lien-Siang Chou²
1/ National Sun Yat-Sen University,
Kaoshiung, Taiwan, Republic of China
2/ National Taiwan University
Taiwan

9:00-9:20 AM Otolith-inferred Life History Traits of Siganid (Teleostei: Siganidae)

Prof. Victor S. Soliman¹
Prof. Kosaku Yamaoka²
1/ Bicol University
2/ Kochi University

9:20-9:40 AM Relation Between Coral Communities and Juvenile Recruitment in the Temperate Regions Affected by the Kuroshio Current

Prof. Kosaku Yamaoka¹
Prof. Tomonori Hirata²
Sosuke Oguri¹
Prof. Shiori Hirata²
Prof. Hironobu Fukami³
Prof. Yohei Nakamura¹

^{1/} Kochi University
^{2/} Uwajima City, Japan
^{3/} Kyoto University, Japan

9:40-10:00 AM **HEALTH BREAK**

10:00-10:20 AM Change in Otolith Shape during Ontogenetic Habitat Shift of Seagrass Siganids *Siganus canaliculatus* (Park 1797)

Renan U. Bobiles
Prof. Victor S. Soliman
 Bicol University

10:20-10:40 AM *Porphyra* Fisheries in the Northern Philippines: its Economic Importance to the *Ilocano* Fisherfolk

Dr. Evelyn Ame¹
Dr. Jovita P. Ayson¹
Prof. Kazuo Okuda²
Dr. Rolando Andres¹

^{1/} Bureau of Fisheries and Aquatic Resource
 RFU-2, Tuguegarao City, Philippines
^{2/} Kochi University, Japan

BIOLOGICAL SCIENCES AND OCEANOGRAPHY

Facilitators: Prof. Marcial R. Jane and Prof. Okuda Kazuo

10:40-11:00 AM Photosynthetic Electron Transport Mediates the Expression of Protein Repairing System and Antioxidant Defense in Marine Macroalga *Ulva fasciata*

Prof. Yuan-Ting Hsu¹
Prof. Ming-Shiuan Sung¹
Prof. Tzure-Meng Wu¹
Prof. Yi-Ting Hsu¹
Prof. Kuan-Lin Ho^{1,2}
Prof. Tse-Min Lee^{1,2}

^{1/} National Sun Yat-Sen University
^{2/} National Chung-Hsing University
 Taichung, Taiwan

11:00-11:20 AM Effects of Sea Algae Extracts on the Metabolism of Carbohydrates: Gametophytes of *Ecklonia kurome* Down-Regulate the Blood- Sugar Level of Non-Insulin- Dependent Diabetes Mellitus Mice by Converting the Intestinal Flora

Prof. Akira Tominaga
 Kochi University

12:00-1:00 PM **LUNCH BREAK**

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|--------------|--|---|
| 1:00-1:20 PM | Degrading Health of Coral Reefs as a Result of Global Climate Change - Effect of Seawater Temperature on Coral Health, a Perspective | Prof. Keshavmurthy Shashank
Prof. Chaolun Allen Chen
Biodiversity Research Center
Academia Sinica, Nangang
Taipei, Taiwan |
| 1:20-1:40 PM | Sipunculans Associated with the Seagrass Beds from Taiwan | Prof. I-Ting Hsieh
Prof. Hin-Kiu Mok
National Sun Yat-sen University |

COASTAL HABITAT RESOURCES

Facilitators: Dr. Tse-Min Lee and Prof. Raul Bradecina

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| 1:40-2:00 PM | The Copepod Fauna in the Cagayan River Estuary, Northern Luzon, the Philippines | Sakiko Sakaguchi¹
Prof. Hiroshi Ueda¹,
Prof. Yoshinori Morooka¹,
Dr. Evelyn Ame² and
Chie Rivera²

<small>^{1/} Kochi University
^{2/} BFAR, Tuguegarao City</small> |
| 2:00-2:20 PM | Aspects of Ecology and Reproduction of <i>Valonia</i> sp. | Alex P. Camaya
Bicol University |
| 2:20-2:40 PM | Cellulose Microfibril Assembly in Algae and its Evolution | Prof. Kazuo Okuda
Kochi University |
| 2:40-3:00 PM | Importance of reef connectivity and symbiont diversity in response to climate change in the Kuroshio Triangle region | Prof. Chaolun Allen Chen
Biodiversity Research Centre
Academia Sinica, Taipei,
Taiwan |
| 3:00-3:30 PM | HEALTH BREAK | |
| 3:30-4:30 PM | SYNTHESIS AND PLENARY SESSION | Prof. Yoshinori Morooka¹
Prof. Hin-Kiu Mok²
Prof. Victor S. Soliman³
<small>^{1/} Kochi University, Japan
^{2/} National Sun Yat-sen University, Taiwan
^{3/} Bicol University, Legazpi City, Philippines</small> |
| 4:30-5:00 PM | CLOSING PROGRAM | |
| 7:00-9:00 PM | SOCIALS & DINNER | |

Day 3 - December 4, 2009 (Friday) - ALBAY Tour